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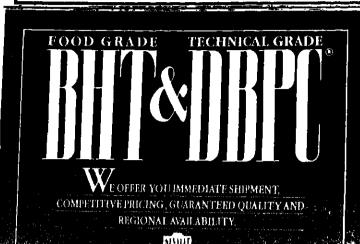
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CMR MARKET INDEX

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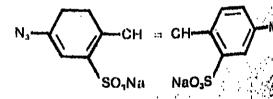
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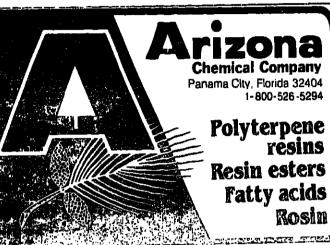
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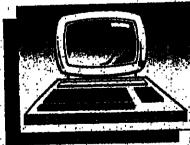
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Superfund Tax Tentatively Established

gively agreed that superfitted (43.5 bil-feedstock chemicals should be \$1.4 bil-sional countries that the chairman of the congres-Non over the next five years, an increase lation of \$200 million over the previous level.

waste cleanup program.

Environmental Profection Agency Adminis-

"Should adjournment occur before teau- final solution. horization is accomplished, there will be no Nevertheless, industry observers said Fri-

sional committees that drafted the new legis-

The House and Senate passed differing ver-The decision came as House and Senate stons of five year extension plan last year, conferees resumed efforts last week to find a and a House-Senate conference committee way to finance a proposed \$8.5 billion read has drafted a final compromise. But before thorization of the stalled superfund toxic lawmakers vote on that package, a separate fay committee must agree on a plan to pay The pegotiations resumed two days after—for the new program.

The fax conferees, who put off action on trator Lee M. Thomas warned lawmakers the superfund white they spent the Summer hamgency would run out of money for supertund the ring out the income tax reform bill. with end of the year unless Congress acts traded new financing offers Wednesday, but before its planned October 3 adjournment. They continued to be far apart on reaching a

more fund program when Congress returns day they remain optimistic that Congress

The jury was originally scheduled to recon-

-- trichloroethylene and tetrachloroethylene

were responsible for the deaths and ill

Grace acknowledged that workers at its

Cryovae Division in Woburn occasionally dis-

posed of small amounts of the chemicals on

the division's premises, but argued that they

could not have migrated to the well sites

Mr. Eller contended last week that the set-

because it shows that "hidividuals can bring

established in August, when a Federal court

in Memphis determined that Velsicol Chemi-

Hardeman County, Tenn., damaging resi-

tive plaintiffs, as well as \$7.5 million in puni-

cepted expert testimony to the contrary.

these kinds of suits and prevail."

Congressional negotiators have tentatively agreed that superfund taxes on tively agreed that superfund taxes on tively agreed that superfund taxes on the short statford (R-Vt.), and Rep. John Dingell (D-Mich V the short statford Rep. John Dingell (D-Mich V the House before adjournment. At last week's meeting, the House agreed

to a Senate proposal to include a new broadbased corporate tax in the financing package - something the House had previously rejected. But the major remaining dispute is over how much revenue should be raised by the new tax — a surcharge equal to a corporation's alternative minimum taxable income as computed under the tax reform bill.

The Senate proposed raising \$5 billion through the new tax, but the House counter offer was to raise only \$2 billion.

The Senate plan also called for a \$500 million tax on the oil industry, \$1.4 billion on. Continued on Page 23

WASTE SITE: EPA says fallure to find new fund-



USIIs at Top in PE With Enron Purchase

before May 1979, when the wells were closed. in the polyethylene business, as National In the first phase of the trial, the jury ac-Distillers & Chemical Corporation prepares to buy the chemicals division of tlement represents a significant precedent Enron Corporation. The move will catapult National's petrochemicals unit. US Industrial Chemical Company, into mar-A legal precedent may have already been ket leadership in the US polyethylene business and will make the company perhaps the largest manufacturer of cal Company contaminated ground water in polyolefins in the world

National Distillers says it will pay \$575 million cush and \$34 million in assumed debt for Enron Chemical, formerly known as Norchem and before that Northern Petro-

The major assets of Enron Chemical are petrochemical plants at Morris, Ill., and Clinion, Iowa. To pay for the acquisition, National says it will sell its wine and spirits division that features brand names such as 'Almaden" wine and "Old Grand Dad" bourbon. Analysts have estimated that this unit may fetch National up to \$500 million.

The Enron acquisition will add 1 billion pounds of low-density polyethylene capacity to USI's stable, 250 million pounds of linear low-density polyethylene, 350 million pounds of high-density polyethylene and 230 million pounds of polypropylene to USI's capacity

The LLDPE and PP capacity provides USI an entree into these two high-growth polymers. After the acquisition is completed, National will have the largest nameplate conventional LDPE capacity (1.8 billion pounds per year) in the US, and the second largest HDPE total (1.2 billion pounds) following

Commodity polyolefins are entering a period of relative prosperity after several difficult years, and several analysts note that now is a good time to expand operations in the

Operating rates for all thermoplastics are running above 90 percent, and feedstock prices are low. With the knowledge that little new capacity is due on line through the 1980's, several analysts have suggested that prices and profitability for polyolefins will soon rise sharply.

Patrick Baggett, vice-president of Chemi-

A major consolidation is taking place cal Marketing Associates, Inc., a Houstonbased market research firm, calls USI's acquisition a "good deal. The commodity thermoplastics business is currently operating at high rates worldwide. Plastics haven't been real profitable in recent years, but they're close to turning the corner and hecoming very profitable.

Robert Bauman of Chem-Systems, Inc., Tarrytown, N.Y., who acted as a consultant in the purchase, says the timing of the deal is "critical," since USI is expanding during an upswing in the plastics eyele. Not only is the company buying large quantities of plastics output, but it is also building a 220-million pound LLDPE-HDPE swing plant in Port Arthur, Tex. which is due on line next year.

According to Mr. Bauman, not only are US plants running at high rates, but recent LLDPE capacity start-ups in Canada have already been absorbed in the market, as has Saudi Ārabian material.

In addition, supply can't keep up with the Continued on Page 24

USI Polyolefin Capacity* LOPE LLOPÉHOPE PP La Porte, Tex. Port Authur, Tex.

450 --1.815 250

250

-- 230

Source: USI and CMR Chemical Profiles.

Morris, III.

Clinton, Iowa

"Millions of pounds per year. In addition USI is building a 220-million-pound-per-year LLDPE-HDPE swing plant at Port Arthur, Tex., due on stream in late 1987. USI acquired the Port Arthur LDPE and HDPE facilities from Arco in early 1984. USI is purchasing the polyolefin assets at Morris and Clinton from Euron, formerly known as Norchem. Norchem hought the Clinton facility from Chemoles in January 1985. Norchem brought on stream the LLDPE capacity at Morris in late 1984. The Encon purchase will also supply USI with 1.7 billion pounds of ethylene capacity split between Morris and Clinton, 230-million pounds of annual ethylene oxide and 200 million pounds of ethylene glycol empacity at Morris and certain other assets.

involving industrial pollution of drinking ment were all there" prior to Judge Skinner's order for a retrial last week. "We weren't sater supplies was settled out of court that concerned" about a new trial, Mr. Eller last week by W.R. Grace & Co. and the 13 Jamilles in Woburn, Mass., who filed suit The retrial was ordered because of confuagainst the company four years ago. sion surrounding answers to questions sub-

Grace Reaches Settlement

Of Drinking Water Litigation

The families alleged that Grace contamimitted to the jury during the first phase. mied Woburn drinking water wells and was responsible for six leukerria deaths, as well asbirth defects and illnesses. vene this month for the second phase of the Grace said it settled out of court to avoid Itial, during which jurors were to hear testi-

the cost of litigation, insisting that the settle- mony as to whether the chemicals in question ment should not be viewed as an admission of gilt. "We're still maintaining our innocence," a company spokesman said.

Details of the settlement were not disdosed, but it is believed that Grace agreed to payatotal of approximately \$8 million to the families — a fraction of the \$400 million the plaintifs were said to be seeking originally. Grace said the settlement costs and litigaion expenses to date would be covered by isurance. The settlement cost is less than shalk would have cost to litigate the case in full, according to the company.

Grace said settlement talks had been iniliated by plaintiffs, and that negotiations heated up after US District Court Judge Walter J. Skinner ordered a new trial for the first phase of the case, which had ended in defeat

for Grace in late July (CMIC 8/4/86, pg. 3).
In the first phase, a six-member Federal jury in Boston found that Grace "substanally contributed" to contamination of two dents' immune systems. The company was wells in Woburn. The jury exonerated Beaordered to pay \$5 million to five representatriceCompanies Inc., which was also charged ith contaminating the wells.

Stanley Eller, an attorney representing the

tive damages. Velsicol is expected to appeal Carbide Will Boost Capacity For Butyraldehyde, Butanol

Union Carbide Corporation says it will 850 million pounds of n-butanol this year is omplete a series of expansions by the Mothe year to double annual capacity Sbulanol at its Texas City, Tex., facility hom 200 million to 400 million pounds

As a result of the expansion program befor two years ago, capacity for butyraide-bde, precursor of butanol in the low-presire 0x0 process, will total 600 million

Pounds per year.

Carbide says an additional 20 percent ex-Mas City by 1988 to meet expected mar-

Closure of the company's Ponce, Puerto Rico, complex at the beginning of 1985 took on n-butanol capacity rated at about 270 llion pounds per year.

The company is reported to have moved ability aldehyde raw material at times from the 120-Write Rice to Texas City to beef up its 120on-pound 2-ethylhexanol unit there.

A Carbide spokesman said last week that the of the equipment at the Puerto Rico has been used in the current Texas City Mansion. Annual projected output of some

judged to be well within the industry's nameplate cupacity of 1.1 billion pounds. However, availability of n-butyraldehyde has been the limiting factor.

More of the raw material has been going into 2-EH production since BASF Corporation closed its 130-million-pound alcohol unit at Montreal, Canada. The plant had been serving BASF's phthalate plasticizer operation at Kearney, N.J.

In addition, Shell Chemical Company has experienced scattered operating problems at its Deer Park, Tex., oxo at The company says it is now back to normal production after a two-week maintenance turnaround in May.

Unlike rhodium or cobalt hydrocarbonyl catalyst plants, the Shell facility uses a cobalt-phosphine catalyst system that produces but anols and 2-EH directly without isolating n-butyraldehyde intermediate.

Flexibility of the Shell plant is believed to be somewhat less, but altering the concentration of hydrogen to carbon monoxide in the synthesis gas feed is said to lend control over butanols to 2-EH ratio.

September 29, 1986

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

A Federal appelate court has reversed a lower court ruling by dismissing a lawsuit by seven Northeastern states seeking to force Environmental Protection Agency to reduce industrial emissions believed to cause acid rain. The US Court of Appeals overturned a July 1985 ruling by US District Court Judge Norma Holloway Johnson, which directed EPA to require states to reduce sulfur dioxide and nitrogen oxide emissions from coal-fired power

plants and other industrial facilities. The three-judge appeals court ruled that EPA was not required to issue the directive because such action "is within the agency's discretion and not subject to judicial compul-

Shortly before President Carter left office in 1981, then EPA Administrator Douglas Costle wrote to Sen. George Mitchell (D-Maine), and Secretary of State Edmund Muskie that findings of the International Joint Commission, a joint US-Canadian agency, gave him reason to believe that air pollution in the US, particularly sulfur diox-

ide emissions, was damaging Canada. Most scientists agree that sulfur dioxide and nitrogen oxides emitted by factories and power plants South of the Canadian border, many of them in the Midwest, are changed into sulfuric acid in the atmosphere as they flow North and East and fall as acid rain in Canada and the Northeast US.

Folliavai Eph man drilli coni Tres Imic fact inqu 453 Suit

NORTHEAST CONTENTION

The Northeastern states contended that Mr. Costle's letter was sufficient to trigger a section of the Clean Air Act that requires EPA to order emission control action if the agency finds that US emissions are causing environmental damage in other countries.

EPA argued that scientific knowledge about acid rain was not advanced enough for it to pinpoint which states should be covered by such an order.

But Judge Johnson ordered EPA to proreed, leaving it up to agency officials to determine which states to cover.

However, the appelate court passed over scientific questions to focus on the general requirement that agencies may not make rules without public notice and giving atfected parties an opportunity to comment.

If Mr. Costle's letter is to bind his successors, it is a rule, and "We conclude that if Administrator Costle's findings...forced EPA to take direct and substantial regulatory actions — they could not be promulgated with-out notice and comment procedures," the panel wrole.

Thus the letter "cannot be the basis for the judicial relief appeilees seek. How and when the agency chooses to proceed to the stage of notification triggered by the findings is within the agency's discretion and not subject to judicial compulsion."

EPA also argued that Judge Johnson's order was an inappropriate intrusion into what primarily was a diplomatic dispute between Canada and the US.



O. Jules Romary, who will succeed J.B. Reid as vice-president and secretary of Union Carbide Corporation. He has been director of investor relations for Union Carbide since 1984.

Phillips Biosciences **Forms Joint Venture**

Phillips 66 Biosciences Corporation, a Phillips Petroleum Company subsidiary, has formed a joint corporate venture with a German drug firm to manufacture and market pharmaceutical products in Germany.

Phillips 66 Biosciences owns 50 percent of the new company; Bissendorf Biosciences GmbH. The remainder is owned by Bissendorf Peptide GmbH and Braunschweiger Biotechnologie GmbH, a Bissendorf Peptide subsidiary. The new company is based in Hissendorf, West Germany.

A drug useful in diagnosing human dwarfism, known in Germany as "Somatobiss", will be the first commercial product of Bissendorf Blosciences.

This drug was developed by Bissendorf Peptide from human growth hormone release factor, which occurs naturally in human beings.

Stringfellow Case Heads for Judgment

A Federal court in Los Angeles has been advised to issue a summary judgment against a number of large corporations that allegedly dumped millions of gallons of hazardous waste at the Stringfellow acid pits in Riverside County, Calif. from 1956 to 1972. The defendants include General Electric, McDonnell Douglas and Stauffer Chemical.

If the court accepts the recommendation of refired judge Harry Peetris, who was appointed to advise the court on the Stringfellow case, a trial would be held to determine how cleanup costs will be divided among the

The operators of the dump and the companies alleged to have dumped wastes there were sued by the US Department of Justice and the state of California in 1983 for recovery of cleanup costs.

Air Products Invests **In Chinese Concerns**

Air Products and Chemicals, Inc., says that, subject to final government approval, one of its subsidiaries will become a partner in Chun Wang Industrial Gases, Ltd., an industrial gas company located in Shekou, Guangdong Province of the People's Republic of China,

Chun Wang, established in 1979, supplies industrial gases and acetylene in both China and Hong Kong, and recently was awarded a contract to supply nitrogen and hydrogen to a new float glass manufacturing plant being built in Shekou by Guangdong Float Glass Company, of which PPG Industries is a ma-

A)r Products' partnership in Chun Wang will mark the first investment by a major Western industrial gas company in the Peo-ple's Republic of China and is a part of the company's overall strategy of expanding its business in the Far East.

Carbide Latex Plant To Expand by 50 Pct.

Union Carbide Corporation today plans to increase latex production capacity at its UCAR Emulsion Systems facility in Garland, Tex. by 50 percent. This expansion project the third major addition to the plant since it began operations in 1972 — is scheduled for completion by June 1987.

The plant and technical service laboratory in Garland serve customers in the Southwest with a variety of latexes used in the manufacture of paints, building products, and adhe-

president for manufacturing and corporate engineering for the consolidated electorchemicals. detergent and specialty products group of Occi **Arsenic Demolition**

Ordered For Tacoma

John L. Hurst, who has been named senior vice-

Environmental Protection Agency and A area say they have reached agreement on the demolition of structure, and equipment useds to produce a rsenic at the commany. To come Wash, copper smelter, which was shut down last year

The order will govern Asarco - perform ance of the opcoming demoliton work of investigations the company will undertake to determine the extent of an enter old annual tion, and of studies to develop cleanup after.

The superfund can entander require. The ausenie-laden (arality to be dramanth dam a Infilmer which will provent further release.

Arsenic and other heavy metal, have been found in soil and groundwater on the prop-

Polypropylene Plant **Expanded by Soltex**

The polypropylene production capacity of Soltex Polymer Corporation's Deet Park, Fex., plant has been increased from 220 mil lion to 300 million pounds per year, a gam of 80 million pounds. Joe Muzikowski, business manager for polypropylene, says this 36 percent gain in production capacity is a result of debottlenecking of the plant's compounding

According to Mr. Muzikowski, the increased capacity will enable Sollex to manufacture a wider range of products and give it the flexibility to supply markets, such as film and blow molding, with products tailored to customers' specific needs.

Sandoz Enters **Management Accord**

A management agreement, entered into by Sandoz Canada and Sandoz Chemicals Corporation of Charlotte, N. C., provides for the assumption of operational supervision of the Canadian Chemical group by Sandoz Chemicals Corporation.

vided by the various industry laboratories in

CMC Unit Complete

Metsalliton Teollisuus Oy of Finland has completed a modernization of its carboxymethyl cellulose unit to increase capacity by nearly 6,000 metric tons per year. The expansion for the company's Aanekoski Chemical Division is split about 50-50 between purified and technical grades and brings total capacity up to 35,000 tons per



(ABC)

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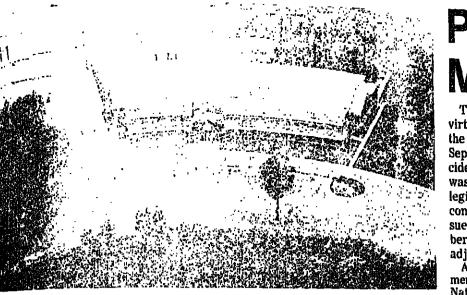
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BASE AGRICULTURAL R&D LABS have opened for business in Research Triangle Park, N.C. This BASE AGRICULTURAL NEW LACS THE OPERIOD TO SUBMINESS IN RESERVED TRANSPORT TRANSPORTED PARK, N.C. This security building biological research on new herbicides, insecticides, mitticides, nematicides, fungicides and plant regulators.

Plasticizer Producers Unite Behind October Increase

In what one observer calls "the most widely supported increase this industry has seen in five years," major US plasticizer producers are attempting to raise selling prices for dioctyl phthalate (DOP) and other phthalate, adipate and trimellitate plasticizers.

These include dibutyl phthalate (DBP), dictyl adipate (DOA), and trioctyl trimellitate (TOTM) by 2 cents per pound, effective October 1. Prices for BASF's "Pointenol 11-P"diundecyl phthalate (DUP) and equivalent product lines will not be affected, nor will list

The Chemicals Division of USX Corporation and Nuodex Inc. were the first to anname fourth quarter hikes three weeks ago. They have since been joined by Tennessee Eastman Company, Eastman Kodak Division, Monsanto Chemical Company, Hatco Chemical Corporation, and Reichhold Chem-

Profitability in this market has been dismal for the past five years, producers explain. Extremely tight supplies of n-buiyialdehyde and oxonicohols, particularly 2 ethylaexanol (2EH), have been a major problem they say. Although domestic producers such as Union Carbide Corporation, which has been debottlenecking its Texas City, Tex., facility and plans to effect significant

crease oxoalcohol production this year, plasticizer producers in the US have faced a shrinking supply of exceleohols since the late 1970's, when Oxochem Enterprises, a major producer, went under. Last year, Union Carblue Corporation shut down one of its oxoalcohol plants and Celanese put one on standby. This February, BASF shut down its Montreal, Canada, plant. Spot shortages caused by fires and mechanical problems at various producers' facilities exacerbated the supply problem this Summer, as many producers were forced to adopt "controlled selling pro-

Reflecting the worldwide supply crunch, costs for the alcohols increased 15 percent by July 1986 over 1985 levels. Since July, they have risen an additional 7 to 8 percent, plasticizer producers report. In addition, costs for key raw materials, such as phthalic anhydride and TMA (trimalitic anhydride) have risen between 6 and 8 percent over this same

Raw material supplies and costs are far from being the only obstacles confronting plasticizer producers, however. Flat deman for PVC, a major outlet for plasticizers, accounting for more than 65 percent of all phthalate plasticizers produced, and a flood of materials from South American and the Continued on Page 31

Oil and Products Imports Seen Doubling by Conoco

Crude oil and petrolcum product im- and \$20 a barrell through 1990 and rise rap-56 percent by the turn of the century, according to a forecast by Conoco Inc., the energy subsidiary of E.I. du Pont de Nemours & Co.

The study predicts nearly 11 million bartels will be brought into the US daily in the year 2000 compared with just over 4 million barrels a day in 1985. OPEC's share of world oil supply is expected to reach 60 percent by 2000, up from 38 percent in 1985.

Noting that the world's oil reserves are concentrated in regions having significant lal for supply disruption, the outlook warns that "rising import dependence means a higher risk of an economically damaging shortfall, reduced flexibility in formulating and implementing foreign policy and greater military obligations to safeguard vital sup-ply links."

At the same time, the ability to respond with an increase in domestic supply will be greatly diminished, the forecast points out.

Because of the uncertainty as to when and at what level crude oil prices will stabilize, the study considers high, low, and mid-range cases. It focuses on the mid-range, where it forecasts prices will fluctuate between \$15

Ports will increase from 26 percent of US idly during the 1990's as the supply-demand demand in 1985 to 41 percent in 1990 and balance tightens, reaching \$40 to \$50 a barrel in the year 2000. (The forecast assumes average annual inflation of nearly 4 percent).

Underlying this outlook was the dramatic collapse of crude oil prices early this year, the study notes. Low prices have forced the shutdown of high-cost oil production and the slashing of exploration and development budgets across the industry.

About \$200 billion would have to be invested in US oil and natural gas exploration and production through 1990 to keep output at 1985 levels, Conco estimates.

However, given lower revenues, reduced price expectations and increased capital demands from refining and transportation because of higher oil consumption, exploration and production spending will fall far short of recent levels, the company says.

The challenge for the United States is to develop policies that permit consumers to benefit from lower oil prices while minimizing the risks of future import dependence, Conoco says.

The study also predicts that oil demand will grow as lower prices spur driving, demand growth will average about 0.5 percent

Continued on Page 22

Pesticide Reform May Elude Congress

The chances of enacting major pesticide reform legislation this year appeared virtually nil at week's end as the Senate failed to act and both environmentalists and the chemical industry criticized provisions added to the House version of the bill on September 19. A bill to reauthorize and significantly overhaul the Federal Insecticide, Fungicide & Rodenticide Act was on the Senate calendar last week, but action

was delayed by a filibuster on unrelated legislation and the leadership's desire to consider more politically attractive issues before adjourning for the November elections. Congress is scheduled to adjourn October 3.

Although the House adopted two amendments that trouble the chemical industry, the National Agricultural Chemicals Association says it still supports the bill and is hoping for quick action by the Senate. Patent term restoration provisions contained in the Senate FIFRA bill are considered the industry's top priority.

Still, a spokesman admits that a liability provision agreed to by the House "is unquestionably bad news for us." As written by the agriculture committees of both the House and the Senate, farmers would not be liable under any Federal law for damages caused by pesticides unless they acted negligently, recklessly or intentionally.

However, under the amendment added to the bill by Rep. Pat Roberts (R-Mont.), while farmers would be absolved, liability would apply to the chemical company that registered the pesticide. Sen. Dave Durenberger Continued on Page 30

Jonathan M. Fry, who has been named chief executive of the Castrol subsidiary of Burmah Oil PLC., effective January 1, 1987. He is currently chief executive of Burmah Specialty

Polycarbonates Carving Out Niche in Health-Care Market

Polycarbonates' small niche in the perceived color change after gamma sterilihealth-care market's annual 1.7-billionpound-consumption of plastics is growing rapidly, according to Mobay Corporation, a manufacturer.

This assessment was made by Earl Haag, technical marketing manager in Mobay's plastics and rubber division, in a paper delivered last week at the regional technical conference of the Society of Plastics Engineers' medical plastics division, Cherry Hill, N.J.

"Plastics are established materials of construction for medical devices and diagnostics," says Mr. Haag, "and they are destined to play an increasingly important role as the \$420 billion health-care industry seeks ways to control burgeoning costs."

Polycarbonate has been an effective solution in the past and, he adds, and "it is wellsuited to meet future challenges of this spe-cialty market." As an example, he cited new improved color-corrected grades with less During 25 years of commercial use in a

wide variety of applications, polycarbonate has enjoyed a remarkable growth rate because of its strength, toughness, transporency, heat resistance and dimensional stabillty, Mr. Haag says. "These properties were put to early use in medical devices when compatibility with body fluids, principally blood, and sterilizability were demonstrated," he recalls.

The use of polycarbonate in blood oxygenators was particularly significant in establishing confidence in the resin and encouraging new applications, he points out.

As plastic oxygenators became more sophisticated and ancillary devices such as cardiometry reservoirs, blood filters and others were developed, the ability of injectionmolded polycarbonate to hold tight tolerances greatly facilitated post-molding as-

Biotechnology Industry Gives General Support to Guidelines

In comments submitted to the White cal affairs, says IBA is particularly con-House last week, the Industrial Biotechnology Association offered general support for the biotechnology regulatory guidelines proposed by the Reagan Administration earlier this year.

But the trade group urged the office of science and technology policy to revise certain definitions, recommended some exemptions to regulatory oversight, suggested modopposed the Department of Agriculture's research guidelines. "After full review and unanimous ap-

proval by our board of directors. IBA has offered official responses to all six documents published for comment in the June 26 Federal Register," says Richard D. Godown, IBA's executive director.

"Our earlier assessment that the guidelines are 'strict but workable' remains. But we continue to have unsettling concerns-most dealing with USDA and EPA," he adds.

Dr. Alan Goldhammer, director of techni-

cerned about the proposed definition of a pathogen. A genetically engineered organism is considered a pathogen even if the recipient or host organism is a non-pathogen and the inserted genetic material comes from an organism that is a known pathogen.

"Many useful genetically engineered microorganisms have been created in such a manner and these organisms are not pathogenic," IBA comments. "One of the chief virtues of r-DNA technology is that most genetic material from pathogens can be cloned into non-pathogenic recipient organisms and worked on in safety under routine laboratory

The group notes that much of the present research on diseases such as hepatitis, AIDS, and majaria would be difficult if not impossible to carry out in the absence of r-DNA technology.

IBA proposed two clarifying definitions that would exclude genetically engineered organisms created using genetic material from classification as a pathogen.

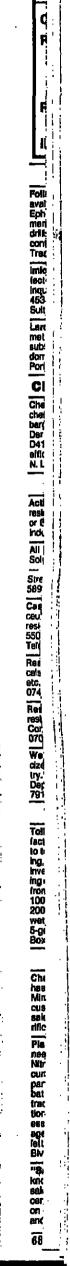
September 29, 1986

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September 29, 1986 100 miles





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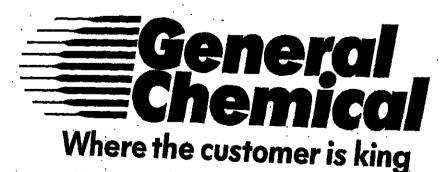
Today, there's a new General Chemical, a corporation formed from those earlier businesses in the spirit of the original company. For specialty fine and photo chemicals, electronic chemicals and sodium nitrite as well as a range of process chemicals such as sulfuric acid, soda ash, calcium chloride and aluminum sulfate, think first of General Chemical.

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Formerly part of Allied Chemical Corporation



Dexter Baker, who has been elected to succeed Edward Donley as chairman of the board and chief executive officer of Air Products & Chemi-cals inc. effective December 1.

P&G Glycerine Nearly Doubling; Need Doubted

Proctor & Gamble said last week that it plans to increase its glycerine refining capacity from 110 million pounds to almost 200 million pound annually. The company would not put an exact date on the plan's completion but stated that the expansion would be a "multi-year proc-

With ten plants around the country, Proctor & Gamble is the largest US producer of natural glycerine.

Observers greeted the announcement with surprise last week, with one producer saying,
"I don't see a need for any new production

with domestic demand for glycerine historically falling between 285 and 310 million pounds per year."

Total US capacity now stands at 370 million pounds annually for both synthetic and astural glycerine, while imports have averaged 40 million pounds during 1984 and 1985. Proctor & Gamble ciaims to be taking the

Continued on Page 16

Commodities: Output Evolving To Efficient Few

The output of tonnage chemicals, such as chlorine, caustic soda, ethylene and sulfuric acid, will be concentrated in the hands of a few efficient producers by the year 2000. That's the opinion of Dr. Charles H. Kline, chairman and past-president of Charles H. Kline & Co.

In a talk before the American section of the Societe de Chimie Industrielle at the Chemists' Club in New York, Dr. Kline predicted that there would be, perhaps, no more ^{at or 80} of these producers, and most of them would be operating on a global basis. Probing deeper into the make-up of the iemical industry during the next century,

be sees a shakeout coming in specialty chem-icals, with this segment of the marketplace again dominated by the efficient manufacdirers. Pointing out that there are over two dozen companies involved in carbon fibers doday, he says he is convinced that two-thirds will be gone from the scene in the

r. Kline looks for more product-oriented Continued on Page 22

Oxy, Church & Dwight Form New Partnership

and Church & Dwight Company, Inc., announced last week that they have

some time. Earlier this year (CMR, 2/10/86, pg. 3) Church & Dwight announced the signsigned a letter of intent to form a partnership to produce and market potassium carbonate and related products. The new partnership, Armand Products

Company, will be equally owned.

The partnership will own and operate an existing 37,000-ton-per-year potassium carbonate plant in Muscle Shoals, Ala., that was recently acquired by Occidental from Diamond Shamerock Company mond Shamrock Corporation. The facility is the only potassium carbonate plant in the US. The partnership will own and market existng potassium carbonate product lines.

Under the terms of the agreement, Occidental will receive 1,110,000 shares, representing approximately 5 percent, of the outstanding common stock of Church & Dwight, plus approximately \$5.3 million in cash. The ounding families and management of Church & Dwight will continue to own more than 50 percent of Church & Dwight's stock fter this transition.

Upon completion of the transaction, which is expected within the next month, Dr. Armand Hammer, chairman and chief executive officer of Occidental, will be elected to

the Church & Dwight board of directors. Church & Dwight has expressed a desire to

pg. 3) Church & Dwight announced the signing of a letter of intent to enter a potassium chemical venture with Olin Corporation.

Since then, Olin has said it would convert up to half of its chloralkali facility at Niagara Falls, N.Y., to production of potassium hydroxide, the raw material for potassium carbonate (CMR, 7/7/86, pg. 7). That project, which will give Olin the capacity to produce 70,000 tons of potassium hydroxide, is scheduled for completion in the fourth quarter.

Church & Dwight now says it is still considering the Olin venture, but that the Occidental partnership will command most of its attention for the moment. Also on hold for the time being, says Church & Dwight, is a Canadian potassium hydroxide and potassium carbonate plant that the company has also

Also involved in potassium carbonate at the Muscle Shoals plant is LCP Chemicals & Plastics Inc. Last year LCP entered a 10-year rock for a significant portion of Dlamond's potassium carbonate output and, to a more limited extent, its potassium hydroxide out-

All involved say the LCP arrangement is not affected by either the purchase of Dia-Continued on Page 28

Pigment Breakthrough?

maker, claims to have made a breakthrough in inorganic pigment technology that will significantly reduce dust hazards

in the production of paint, ink and plastics without requiring formulation changes. "Chrome yellow and molybdate orange make up the highest-value pigment types of the more than 50 pigment types offered to paint, plastic and ink makers," says Dave Waldron, Heubach's business manager for these pigments. ager for these pigments.

"As of this year an estimated one-third of all lead chromate volume in the United States has been replaced at a cost burden of \$1 billion to \$2 billion, which has been passed on to consumers in the last few years. By reducing inorganic pigment dusts by as much as 90 percent, the new technology may enable end users to avoid this huge cost burden," Mr. Waldron says.

opment is that it is achieved by altering the electrostatic charge on a pigment's surface and does not in any way require changes in formulations in which the pigment is used," says Bill Arnheim Heubach's vice-president for R&D, who led the scientific staff in developing the

Extensive laboratory and field tests confirmed that gloss and color strength are not affected by the low-dust treat-

ment, the company says.

The development of the improved pigments was accomplished much more rapidly because of the use of a new dust testing appliance developed by Heubach in Germany, the firm adds.

"Chrome yellow, zinc chromate, and molybdate chrome orange, thus far, are Continued on Page 20

Oil Price Decline Seen Leading To US Dependence on OPEC

Low oil prices have failed to help the US economy, while recent modest improvements in oil prices have generated Assessing the future role of OPEC, Dr. Eck provements in oil prices have generated "undue optimism in Houston and Washington" about the future of the US-based oil industry, Amoco Corporation's chief

economist says. Dr. Theodore R. Eck said in testimony before the Senate Committee on Energy & Natural Resources, "The energy-led recession in the Rocky Mountain and Southwestern states seems to have fully offset any benefits that may have accrued to the rest of the nation.

"Moreover, recent oil import volumes have increased and promise to continue to rise. The combination of high import dependency and sharply lower domestic investment for oil and see acceptance and reconstitution. can scarcely be expected to boost US economic performance."

According to Dr. Eck, stabilization of crude oil prices at \$16 to \$18 per barrel could be the "worst case for much of the world."

be the "worst case for much of the world."

He explains that this price range would be high enough to allow many Arab nations to live comfortably, while the US, Britain, Mexico, Egypt, and Irah, and many other smaller producing countries would remain under producing countries would remain under severe financial pressure.

The Soviet Union would also face serious foreign currency: limitation strains that

says, "The inescapable conclusion is that low crude oil prices (approximately \$16 to \$18 per barrel) will not permit the US to maintain the current levels of proven crude oil and natural gas reserves.

"If prices under \$20 persist for the near-term years, the decline in reserves in the US will accelerate very significantly from the already declining trend in the past 10 years. And a continuance of low oil prices will also not justify the levels of capital spending required to find large quantitles of crude in the relatively high-cost areas of the world out-

As a result, Dr. Eck says, "control of crude ized countries will inevitably become more and more concentrated in Saudi Arabia. Kuwait, Iran, Iraq, and Abu Dhabi - the five low-cost producers which control 61 percent of the free world's proven oil reserves.

"If the leadership of the Middle East were to become less friendly to the West, we could lace very unfavorable cost and supply condi-

Dr. Eck says the government can help the petroleum industry by refraining from ac-

R&D Lack Hobbles US

development of new technologies, the Federal government will continue to lack both the tools to evaluate risks from occupational and environmental exposures and the information to frame rational laws and regulations to protect people from mutagens, says a Congressional study.

According to the Office of Technology Asssment, heritable mutations are the most poorly understood of the known or suspected effects of exposures to chemicals and physical agents in the environment.

"Yet, Congress has passed laws requiring protection of the public from exposures that can cause these permanent changes in the genetic material which can be passed on to

succeeding generations," says OTA.

"Continuing to rely on inadequate knowledge about the causes and effects of mutations could result in poorly-informed decisions about acceptable levels of exposure and the level of resources needed to provide protection from such exposures," adds the

OTA, the research arm of Congress, carried out the analysis at the request of the Senate Veterons' Affairs Committee and the House Science & Technology Committee, which are charged with framing public health laws.

Among the laws that specifically require protection against the risk of mutations are superfund and the Toxic Substances Control

With few exceptions, current methods are clearly inadequate to determine whether exposures to environmental chemicals and radistion are important influences on the frequency of heritable mutations in the opulation, says OTA.

În human beings, specific causes of herita-

Continued on Page 25

DES Lawsuit Seeks \$100 MM From Drug Firms

A New York woman has filed a \$100 million lawsuit against seven former manufacturers of DES (diethylstilbestrol), charging that the drug was responsible for her child being born with cerebral palsy. The woman's mother took the drug in 1954.

The suit is among the first to be filed on behalf of third-generation DES victims, and more are expected to follow under a New York State law, enacted this Summer, which allows certain toxic tort actions to be filed, even though the statue of limitations has ex-

Last month, three women filed DES suits

totaling \$95 million one day after the new law was signed (CMR 8/4/86, pg. 12). The latest suit charges that the seven com-panies were "careless and negligent" in the manufacture and marketing of DES, used mostly in the 1940's and 1950's to prevent miscarriages. DES was later linked to cancer

in the daughters of women who took the drug.
The seven companies named in the sult
are: Eli Lilly & Co., E.R. Squibb & Sons Inc.; Merck & Co., Rexall Drug Company and Winthrop Company (part of Sterling Drug). The companies declined to comment on the

suit last week, most saying it was against policy to discuss pending litigation. Lilly said it had not yet seen the complaint and would

not comment until it did.

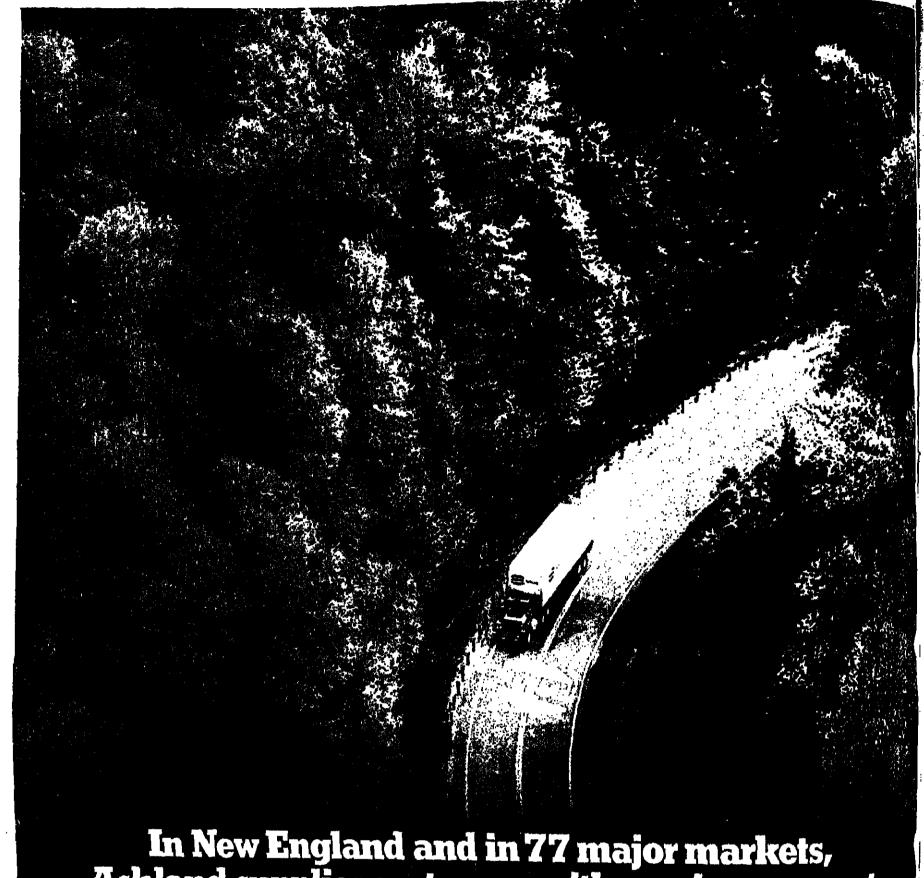
Winthrop spokesman Terry Kelley said,
"Our brand of DES was never indicated with problems associated with pregnancy." He also said the company was not a major producer of the drug.

September 19, 1986

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News Capsule

LNG Charter Set

Shipment of liquefied natural gas from Indonesia to South Korea will commence next month under a 20-year supply agree-ment under which Pertamina, the Indonesian state oil company, will supply South Korea with 2 million tons of gas annually. The LNG carrier Golar Spirit, owned by Gotass-Larsen, will carry the first cargo from Arun, Indonesia, to Peong Taek, South Korea.

Plastics Plant Planned

Genpak Corporation, maker of foambinged, carry-out containers and foam traysfor the food industry, plans to build a new, \$5 million plant in Mecklenburg, N.C. Genpak will lease an existing 106,000-sqaure-foot building to house the new operations. The plant and equipment will represent an investment of nearly \$5 million when fully operational, according to the Glens Falls, N.Y., company.

Big Three Sale

Big Three Industries Inc. has agreed to eliali 8.3 million shares of common stock Nowsco Well Service Ltd. to two Canadian investment banking firms, Gordon Capital Corporation and Dominion Secuitles Ltd., both of Toronto. The holding represents 61.4 percent of Nowsco, a worldwide supplier of acidizing, cement-ing, fracturing and stimulation services for oil and gas wells.

Fatty Acids Study

Retail sales of omega-3 fatty acids will reach an estimated \$20 million this year. according to Eldib Engineering & Research Inc., which predicts that omega 3 fally acids from fish oils will be the "next big craze" in the health-food market. The acapsulated fish oil products are easy to ake and replace the need to include oily ishinthe diet several times a week, Eldib

Owens-Corning Restructures

Owens-Corning Fiberglas Corporation has reorganized its operations into three units: construction products, industrial materials and international. As previously announced, the aerospace and strategic materials group will be sold. The company recently thwarted a takeorer attempt by Wickes Companies.

MC Agrees to Sell

^{Inte}rnational Minerals & Chemical Corporational Minerals & Chemical Corporation has agreed to sell its US gas addibusinesses to Wintershall Corporation, Denver, Colo. Wintershall is a subsidiary of Wintershall AG of Gormany, part of the BASF Group, Included in the purchase is a gas pipeline network in Louisiana.

J&J Enters Accord

Johnson & Johnson has signed a letter of intent to purchase Life Scan Inc., Mountain View, Calif. Life Scan manufactures and view, Cant. Life Scan manufactures and markets diagnostic tests that are used all home by diabetics to measure blood sugar levels. J&J's Ortho Pharmaceuticals units markets other diagnostic kits used in the home

Rhone-Poulenc Venture

May & Baker, a wholly-owned sub-UK, is transferring its photochemicals op erations to a joint venture with Champion Chemtech Ltd. of Canada, May & Baker holds a 25 percent stake in the venture.

Magnesium Venture Set

Norsk Hydro AS will go ahead with its \$290 million magnesium project at Becancour, Quebec, Canada. Work is scheduled to begin in April, 1987, on the project which is sized to produce some 60,000 tons innually of magnesium propagating a 25 annually of magnesium, representing a 25 percent increase in the world's supply,



Thomas H. Kennedy, who has been named ex-ecutive vice-president of Celanese Chemical Company, with responsibility for worldwide sales and marketing, as well as operations and technical functions.

Oil Tax Bill Is Defeated In House Vote

House tax writers last week defeated a measure opposed by the chemical industry that would have imposed an excise tax on imported crude oil and refined petroleum products in an effort to help reduce the Federal deficit.

The House Ways & Means Committee, looking for revenue to include in a \$15.5 bli-lion package of deficit-reduction measures, rejected the oil import fee proposal by Rep. Byron Dorgan (D-N.D.) on a 12-6 show of

The proposal would have, in effect, set a \$22 base price for a barrel of imported oil, but it would not have applied to heating oil or products used in agriculture.

"We are in desparate need of money. This is one approach that yields some very significant revenue," said Rep. Dorgan, who esti-mated his amendment would raise \$14.6 bil-

lion in fiscal 1987.

The Reagan Administration, as well as the chemical industry, opposed the imposition of an oil import fee.

McNeil Drug Is Targeted by Health Group

A consumer-advocate organization last week asked the Federal government to ban a new arthritis and pain-killing drug on grounds it can cause kidney

damage.

In a letter to Food & Drug Administration
Commissioner Frank Young, Dr. Sidney
Wolfe, director of Public Citizen Health Research Group, said "Suprol" should be taken off the market as soon as possible.

Dr. Wolfe said the drug, manufactured by Johnson & Johnson's McNeil Pharmaceutical Division, has caused more than 100 reported cases of kidney damage, mostly in American patients. He claimed the actual number of patients suffering kidney damage from the drug, also known as suprofen, may

be much higher.

Johnson & Johnson spokesman Robert Andrews denied the charge, He said there has been a change in kidney function, but it has been reversed by halting use of the drug.

"We know of he reason why removal of the drug from the market is appropriate as long as physicians have droper prescribing infor-

as physicians have proper prescribing infor-mation," Mr. Andrews said.

McKesson To Sell Its Distribution Unit

McKesson Corporation, San Francisco-based distributor and producer of industrial and consumer products, has reached an agreement to sell its chemical distribution operation — McKesson Chemical Company — in a three-step transaction for \$76 million in cash.

The ultimate buyer of McKesson Chemical will be Univar Corporation, which, headquarindustrial chemicals in the US through its Van Waters & Rogers Division, and in Canada through a subsidiary, Van Waters &

McKesson said that after the closing of the transaction, it plans to sell the two remaining components of its chemical group— McKesson Envirosystems (a solvent recycler) and McKesson Environmental Services (a technical laboratory and consulting firm

specializing in environmental audits).
In the sale of McKesson Chemical Company, first Pakhoed Holding NV, a Dutch company, will capitalize a US subsidiary with approximately \$26 million. Next, the subsidiary will acquire the assets, subject to certain liabilities, of McKesson Chemical for

Next, Pakhoed will exchange the stock of the subsidiary (representing, in effect, McKesson Chemical) for 3,053,000 shares of Univar, which will represent an approxi-

The chemical group represented about 10 percent of McKesson Corporation's total corporate revenues and about 3 percent of its operating profit — \$6.3 billion and \$78 million, respectively, in the fiscal year ended March 31.

Thomas W. Field, Jr., McKesson's president and chief executive officer, said that these moves will complete the transition of McKesson from a highly diversified operation to a company focused on distribution services and consumer products. These in-clude drugs, health and beauty aids, housewares, bottled water, alcoholic beverages and office supplies. Marketing is to retailers, health care providers and consumers, de-

pending upon the products.

McKesson was originally a New York-based distributor of chemicals and liquor called McKesson & Robbins Incorporated, with a massive nationwide distribution system. In the 1960's, the company was acquired by Foremost Dairies, and the combined organization was named Foremost-McKesson. Later, the dairy business was sold, after the merged company had added many consumer and industrial lines to its business.

"We now serve some 120,000 retail establishments and health care providers, filling over 40,000 orders a day, and we are well on

Continued on Page 20

Diazinon Hit by EPA

week cancelled the use of the posticide diazinon on golf courses and sod farms, based on data which show that exposure to the chemical applied on these sites results in "unreasonable risks" to birds.

Ciba-Geigy Corporation, the main US producer of the pesticide, plans to ask for a hearing on the EPA order before an

administrative law judge.
The company said EPA ignored its efforts to resolve the agency's concerns on a scientific basis, and accused the agency of acting in an "inefficient, adversarial" man-

A company spokesman said golf course and sod farm applications represent about 6 to 8 percent of Ciba-Gelgy's diazi-

home lawns, fruit and nut trees, vegetables and some field crops

An estimated 512,000 pounds are used annually on golf courses and 60,000 pounds are used on sod farms. EPA says it received reports of approx-

imately 60 bird kills in 18 states in which diazinon was either confirmed or implicated as the primary cause. The kills involved 23 species of birds, including migratory and non-migratory waterfowl, songbirds, shore birds, wading birds and

Most of the reported bird mortalities were associated with large grassy open sites such as golf courses, which are pre-

FOIA Limit Wins Approval; Drug, Chemical Protection Seen

Industry-backed legislation amending the Freedom of Information Act to establish new procedures when an FOIA request is made for confidential business information was approved by the House last week.

The proposal, offered by Rep. Glenn English, (D-Okia.), was supported by chemical and pharmaceutical companies that believe present law makes them vulnerable to disclosure of trade secrets.

Public interest groups and others who frequently make FOIA requests unsuccessfully opposed the bill, contending it will significantly delay the release of information and could limit access to some business information completely.

ompletery. "I want to emphasize that this legislation is strictly a procedures bill," Rep. English told lawmakers on the House floor. "It will not permit agencles to withhold any information currently made public. The bill only modifies the procedures used by agencies in making losure decisions.

Chemical Specialties Manufacturers Association says the bill provides companies with "fair and certain" protection and corrects "serious procedural ambiguities" in the cur-

product developments, designs, forecasts and plans," says Jack Pulley, managing counsel of Dow Corning Corporation.

For small businesses, he adds, the need is especially critical since their success or fallure depends on only a few products. Under the new procedures, when an out-side interest makes an FOIA request for in-

formation which has been designated as con-fidential by the business which submitted the information, the agency must notify the sub-mitter to allow the business to object to dis-

An agency would be given five days to notify the submitter that an FOIA request has been made, and the submitter would be allowed up to 10 days to file objections. The agency then has 10 days to determine

If an objection to disclosure has been made, the agency must wait 10 additional days before releasing the information. Under specified circumstances, these time limits could be shortened.

The agency would not have to notify the submitter regarding an FOIA request if the information was not designated as confidential; if the agency first determines that the request should be denied; if disclosure is required by law or regulation; if the informa-"II US businesses are to remain competition is already public, or if the agency deter-tive in international markets, they need to be imines that the information is not

able to protect information concerning their confidential, despite its designation.

September 29, 1986 CHEMICAL MARKETING REPORTER.

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September 29, 1986

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OILS, FATS & WAXES

Coconut Oil Market Stronger; Dealer Activity Boosts Pricing

Coconut oil is trading at some of the ous lows that we saw highest prices seen in two months. The toric," he asserts. strength of the market is considered to he the result of dealer activity, rather than a high level of consumer interest. Starting in late July, coconut oil began its latest plunge, falling steadily for about a month. The price reached a low of 121/2 cents in mid-August, and since then it has been slowly creeping back up.

In recent weeks, though, prices have undergone a noticeable upsurge. Sources attribute this largely to extensive short covering by dealers. One trader feels that the dealer buying was spurred by origin producers buying back some of their material. Subsequent short covering, he says, has sustained the rally.

Despite the brisk level of trade, interest among end-buyers remains low. "Most of the consumer interest is for forward positions; they don't need spot oil right now," says an industry source. He goes on to say that "consumers are just going to sit back and walt for

CONSUMER BUYING DOWN

Other traders agree that consumer buying is down. "Most big (end use) buyers are well overed; there is not a lot of activity going on out there," says one industry source.

Consumers seem confident that the firming in the market will prove temporary, and hat coconut oil supplies will not disappear while they wait for prices to drop.

Total US stocks of coconut oil at the beginning of August stood at 124,000 metric tons, secording to Bureau of Census figures. This was down from the 125,000 ton figure recorded for the first of July.

At the same time, US imports soared from 36,400 tons in June to 64,000 tons in July, according to Foreign Agricultural Service. August import figures are not yet available.

This leap upward in imports reflected a need to replenish stocks in the US at a time when both dealers and end consumers were low on material, a source says.

As far as the probable duration of the firming trend is concerned, traders are unable to gree. One buyer feels that, although the Market may not fall considerably from where it is now, the market is "as strong as It's likely to get," he says.

On the other hand, another dealer believes that a strong coconut oil market is here to stay, at least for a while. "The coconut oil market has already bottomed out; the previ-

FRIDAY SPOT PRICES

ARKET CLOSE SEPT. 26, 1986 RUDE VEGETABLE OILS EFD. VEGETABLE OILS OILMEALS Cotionseed, 14% bulk, Merrohis........ton \$130 Linseed, extracted, 34% bulk, Fargo....ton \$95 Peanut, 50% bulk, SE, Alabama......ton \$195 Soybsan, unrest., 44% bulk, Decatur....ton \$163.50

ATS & GREASES

Grease, while, choice, tanks, divid., NY... ib. .. 1012 Grease, yellow maximum 10%, ffs tanks... ib. .. 9 Lord, loose, bulk tanks, divid., Chloago ... ib. .. 15 Tallow, inadible, tancy, tanks, divid., NY... ib. .. 12 Tallow, inadible, bloh., tanks, divid., NY... ib. .. 11%

VEGETABLE OILS

COTTONSEED OIL - Traders have begun to see some strengthening in the cottonseed oil market, which is said to be following firming trends seen in world prices of coconut oil and palm oil.

Traders feel that the price has gotten as low as it is likely to get in the foreseeable future. "The cotton price has bottomed out, and now it's starting to firm," say an industry source. Buying demand has been rather high,

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

Coconut oil, NY, 1c, per ib.
Corn oil, Midwest, 2c. per ib.
Cottonseed, 41% buik, Memphis, \$5 per ton
Grease, white, choice, tanks, divd., NY, ½c. per ib.
Grease, yellow maximum 10%, ffa tanks, ½c. per ib.
Lard, loose, buik tanks, Chicago divd., 1c. per ib.
Paim oil, NY, ½c. per ib. Lard, loose, bulk tanks, Chicago divd., 1c. per lb.
Palm oll, NY, Vac. per lb.
Peanut, 50% bulk, SE, \$5 per ton
Soybean, 44% bulk, Decatur, \$5.50 per ton
Soybean oll, Decatur, .70c. per lb.
Tallow, inedible, fancy, tanks, divd., NY 1c. per lb.
Tallow inedible, bleach., tanks, divd., NY, 1c. per lb.

Cottonseed oil, Valley, ¼c. per lb. Peanut oil, Southest (restricted), 1c. per lb.

OILS, FATS INDEX

CHANGES/DOWN

The Olls, Fats & Waxes index reflects the prices of 11 representative materials n this sector and the quantity of each produced in 1985.

Sept. 26, 1986 Sept. 19, 1986 78.47 . 83.06 Aug. 29, 1986 Sept. 27, 1985 .. 83.26

Chemical Prices Start on Page 32

especially in export sales, sources say, whil domestic buying remains hand to mouth.

Another highly relevant factor in the stronger cottonseed oil price is the promise of a reduced crop yield this year. "The crop is a lot less than we thought it would be," says a source, who cites insufficient rainfall in Texas as the main reason. Also, the "overall quality of what's out there will be a lot lower than last year's," according to another indus-

PEANUT OIL - The peanut oil market is softening as buying interest remains low. The market has been weakening steadily over the past few weeks as consumers have become more confident that there will be no serious shortage of oil from the new crop.

"The new crop is currently being harvested, and we anticipate having peanuts for crushing within three to four weeks," says one industry observer, who cites this as a probable reason for the absence of customers at present. In the meantime, there is "plenty of oil available" now, says another industry

TALLOW — The tallow price is still on the rise, fueled largely by spot interest and buy-ing on positions through October. The shortterm buying being done by dealers is said to be the result of good domestic demand, as vell as covering of outstanding foreign sales. The market is in the midst of a short supply

situation whose cause is not readily known. "No one knows the reason for the short supply," says an industry source, who says that the contending theories of lower production and dealers withholding material have not

been resolved.

The source says that buying interest, is especially strong on the part of animal feed business, which is up considerably over last year's. Despite good demand and firm prices, though, offers remain hard to come by, according to industry sources. cording to industry sources. .

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September 29, 1986

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- Synthetic

September 29, 1986

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Camphor Tablets

both companies.

Taiwan, Italy Have Strongest Outlook

Continued economic expansion appears ahead for Taiwan, Italy and four other main industrial nations, Conference Board reports in its International Economic Scorebont Industrial nations, Conference Board reports in its International Economic Scorebont Taiwan continues to set the pace, with its leading index rising at an annual rate of its percent, followed by Italy, 11 percent; France, 8 percent; West Germany, 6 percent, US, 3 percent, and Canada, 2 percent.

The leading index in the United Kingdom is not advancing at all, while in Japan, index is declining at an annualized rate of 1 percent, and in Australia, it is dropping in percent, according Edgar R. Fiedler, vice-president and economic counselor of both In West Germany, prospects have significantly improved for the tirst time but in Fiedler addded.

Chemical Finance

Carbide Making Second Rights Payment of \$3,22

Union Carbide Corporation, Danbury, Conn., will distribute a second payment of the per right on October 14, following the distribution of \$30 that the company made of the 30. Another 85 cents may be distributed later, depending upon a court rully be distribution represents funds received from sale of most of the company's comment.

Fiscons Buying ARL for \$66 Million

Fiscons, a large drug and agricultural products concern headquartered in Engladi expanding its scientific instruments business with an agreement to purchase April Research Laboratories (ARL), a US company, for about \$66 million. ARL is a printly owned company with manufacturing plants in Switzerland and California.

Natural Gas Demand Has Broad Potential

Demand for natural gas in the US could range between 19.2 trillion and 28.8 inlike cubic feet by the year 2000, depending on economic and regulatory factors, according a study by the American Gas Association. The broad range reflects possibilities in use legislation, competitive market structures and many other factors, AGA said

Pharmacia Acquires Stake in Electro-Nucleonics

Pharmacia, the Swedish pharmaceutical and biotechnology group, has acquire percent of the shares of Electro-Nucleonies Company in the US and will seek alm interest. Under a contract, Electro-Nucleonics also will have exclusive rights be tribute certain Pharmacia products in the US.

Borg-Warner Lifts Dividend, Buys Shares

Directors of Borg-Warner Corporation, meeting at the company's Chilton subsking Dallas, Tex., authorized the repurchase of up to 15 million shares of the companion stock, with funds to be provided principally from a continuing restricting Borg-Warner's business. Directors also raised the dividend on the common such cent per share to 25 cents. C.E. "Red" Johnson, president and CEO, noted that Chillen acquired in June, and its York air conditioning subsidiary was spun off to shareholds

Laser Industries Offering Debentures

Laser Industries Ltd., New York, has commenced the public offering of \$20 miles principal amount of 8 percent subordinated debentures due September 15, 2006, prieda 100 percent. The debentures will be convertible into the company's common share in conversion price of \$14.895 per share. Drexel Burnham Lambert Incorporated is the table underwriter of the offering.

USX Debt Is Placed on CreditWatch

The debt ratings of USX Corporation and two subsidiaries have been placed Standard & Poor's CreditWatch with negative implications. The large steel at petroleum company is being pursued by aggressive investors, and is exploring rates alternatives to merger that would provide comparable value to stockholders.

Abbey Medical Bought From Baxter Travenol

National Patent Development Corporation and VenTech SA, a wholly owned subsidiary of First City Gold Corporation, a Canadian company quoted on the Alberta Stock Exchange, have completed their leveraged buyout of Abbey Medical Inc. from Baxia Travenol Laboratories, Inc. National Westminister Bank USA provided leveraged for the Cooking and CSO of the Cooking and CSO nancing. The transaction was announced by Jerome L. Feldman, president and CEOM NPDC, and Lord Beaverbrook, chairman of VenTech.

Sixty Abbey Medical retail centers were acquired by the purchasers and are expetd to generate sales in excess of \$75 million in 1986, bringing National Patent's total size. over \$250 million on an annualized basis.

National Patent's principal subsidiaries and divisions are International Hydron, Acti haston, National Patent Dental Products and Interferon Sciences.

Air Products Acquires Separex from Parker

Air Products & Chemicals, Inc., has acquired Separex Corporation from Paris

Air i roducts & Chemicals, Inc., has acquired Separex Corporation from pain Drilling Company, of Tulsa, Okla. Separex, which has been manufacturing mental for gas separation since 1980, has its primary facility in Anaheim, Calif. "Separe cellulose acetate membranees are used to recover hydrogen from refinery off-fix. Jim Sorensen, director of technology and development for Air Products' mental systems department, said that the acquisition is another step toward the company objective of combining its gas processing and applications expertise with various and technologies so as "to offer the best approach for a customer's particular requirement."

IMC Acquires Pitman-Moore from J&J

International Minerals & Chemical Corporation, Northbrook, Iil., has signed sides intent to acquire Pitman-Moore, a subsidiary of Johnson & Johnson. Pitman-Moote, headquartered in Washington Crossing, N.J., markets pharmaceuticals, biological & nostic and surgical products to the animal health market. Markets include all species farm animals and household pets.

Donald E. Phillips, president of IMC's Animal Products Group, said the acquisiton IMC's strategy of building its own animal products business. The Pitman-Moore acquired by the product of the produ

tion broaden's IMC's product line and provides access to new technology and commercial opportunities, Mr. Phillips added.

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AROMATIC ORGANICS

Phenol Producers Schedule 2-Cent Advance for October

Phenol producers, citing high feed-same period of 1985, a 40.2-million-pom stock costs and poor profit margins, say they are raising market prices by 2 cents per pound, effective October 1. Producers believe that market demand is

strong enough to support the increase. Feedstock cumene costs, reflecting the benzene market, have risen from a 13.5cents-per-pound level in mid-Summer to 14.75 cents per pound. It is reported that some cumene suppliers are looking to get 15 cents per pound and higher for October.

One phenol producer says that phenol pricing in relation to cumene costs "is the worst it's been in recent memory." "Margins have suffered very badly the last six to seven months," he comments, a period marked by a mostly unsuccessful price initiative in July.

"Margins are very poor," says another producer, noting that when feedstock prices fell during the first half of the year, "everything was passed through." "The industry needs the 2-cent increase," he says.

USS THE PRICE LEADER

The price movement was initiated by USS Chemicals, which has been selling spot material at the higher price level this month. It is reported that there has not been a great deal of pre-buying activity.

While saying that the price increase is feedstock-driven, producers add that a healthy level of demand, improved from the first half of the year, should provide support for the higher price.

Output is said to have risen with stronger iemand for bisphenol-A, a major end-market, and operating rates are estimated at 85 to 86 percent of capacity.

The phenolic resin market, which has not een strong most of the year, has shown some ilgns of picking up. Producers observe that lemand typically tails off during the fourth quarter, but that the fourth quarter of 1985 was fairly strong.

Shifting trade patterns are seen as playing significant role in the phenol market this year. Exports are flowing at a much heavier rate than last year, and imports have dwindied considerably.

"Imports are minor" this year, says a producer, with small amounts arriving on the East Coast from Spain, and in the Gulf from Mexico. Last year, Rumania, Brazil, and Italy are said to have been more involved in the market. Through July, imports totaled 5.6 million pounds, down 36 million pounds from the 41.6 million pounds imported during the same period last year.

US exports, driven by Far East domand, have grown to 100.5 million pounds through July from 60.3 million pounds during the

increase. Producers say the weakening of he US dollar has been a major factor in the land

However, the restarting this month of a 60-million-pound-per-year plant near Montreal, which has been idled since the first of the year, is expected to have a significant impact on the market, since it is estimated

PRICES TRENDLINES

WEEK ENDING SEPT, 26, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX

The Aromatic Organics index reflects the prices of 14 representative materials in this sector and the quantity of each produced in 1985.

Sept. 26, 1986 Sept. 19, 1986 Aug. 29, 1986 Sept. 27, 1985

Chemical Prices Start on Page 32

that the US has been exporting phenol to Canada at a 40-million-pound-per-year rate It is believed that the producer has been

building inventory this month, and that matrial will become available on the mand around October 1. Seller aggressivenes at customer loyalty cannot be determised in advance, producers say, though they point out that, because the plant is old, its compeltiveness may be restricted.

BTX - Spot henzene pricing weakened to the second consecutive week to an 81c. to 82c. per gallon range. The market had reached 84c. per gallon level around mid-month.

The decline has quieted talk of a possible upward adjustment in contract pricing for October 1. The present contract level is 85c.

industry sources say that heavy buying at tivity during August and early Septemble, when prices were rising, has resulted in a buildup of consumers' inventory levels

Major end-market styrene is still advan ing, but purchasors have not been active of late. It is expected that inventorie will be sufficiently worked off for activity to plet of in early October.

Market sources report a shift in bents

AROMATIC ORGANIC IMPORTS: JULY

CENSUS BUREAU REPORTS ON THE TOP 24 AROMATICS.

	J	ULY	QUANTITY	SAlene
	QUANTITY	\$ VALUE	72,400	136/54
Alkylphenoisib.	281.022	761,652:		
Aniineih.			20 202 GOS	14.214.45
Benzenegal.	23,033,528	17,115,644		(3.31)
Benzolo acidib.	294,602	187,183	95,424	235,26
Coalier*lb.		1.644.362	2,265,728	064.86
Craecie oil	28,340,102	34,821	1,876,103	161.93
Create oilgal.	58,472	359,255	302,053	191.57
Cresols, o-, m-, pib.	510,807	4 460 673	46,207,829	12
Cumple constitution and accompany to the	51,679,371	6,059,573	1,579	
Cyclonexane	4,780	8,186		- 44
Cyclonexanone			120.688	
Fumbric ricid	114,640	44,535	46.291	234.0
maidic arthyddida	411,168	170,230	1.309,647	
	1,255,040	497,466	1,300,078	22.4
TE PROPURIO AS & Genvatives	496,988	383,107	200	81.7
	532,773	90,754	603,504	. (4)
Phthalic anhydrideib.		210,265	300,091	101. 1
Picolines	1,063,445	208,103	218,900	1,540,7
Styrene morrower	253,554	2.651.562	11,727,003	· 01.004
Styrene morromer	21,906,479	9,408,298	18,380,417	114
Verbland	15,264,070	487.932	723,721	100
Vat blue 1	433,104		4.150,787	- 1
Ayrollo	9,240,121	6,309,122	160,141	100
Xylene	2,417,949	2,003,250		
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Xylenois.		일본 건물	7 1	1. 4.
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AROMATICS

trade patterns that should work to producers benefit. During the first half of the year substantial amounts of benzene were flowing into the US and providing some pressure on

pricing.
Since the beginning of August, however, it is said that imports have lessened, a trend attributed in part to the weakening of the US

Spot toluene was quoted last week in a range of 68c. to 69c. per gallon, down from 71c. to 73c. per gallon the previous week. Sources cite weak gasoline pricing as being a factor in the decline. Spot xylene has been holding steady at 75c. per gallon.

MELAMINE — Producers say that a de-

cline in import pressure, coupled with fairly healthy domestic demand, has enabled pricing to hold firm in recent months.

Two overseas producers, one in Brazil and the other in Kuwait, were significant factors in the US market last year, but have not operated this year.

Although Saudi Arabian Fertilizer Co. has come on line in the meantime, "the Saudis have not filled the void," says one US producer, and the other comments that Saudi shipments "seem to be somewhat erratic." "I'm not sure they've established them-

Producers say they expect total imports this year to be at least 20 percent below 1985. Through July, imports were 11 million pounds, as compared with 15 million pounds last year, a decline of 26 percent.

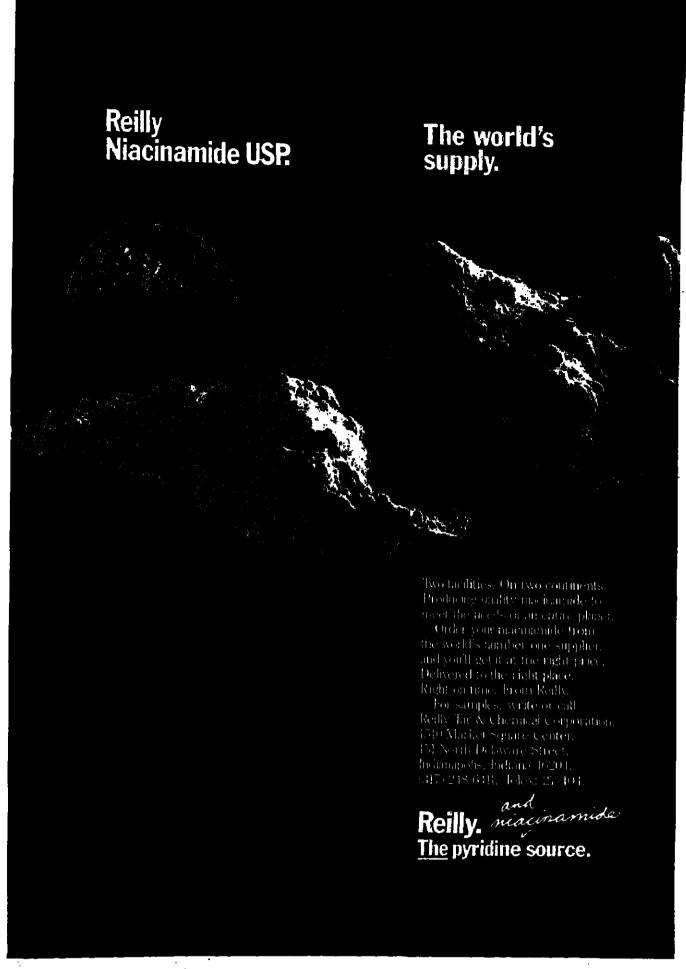
Domestic producers attribute the lessening of import pressure in part to the weakenng dollar. The US market has become less attractive to overseas producers, they say, and note that product pricing in the US is lower than in any other producing country. Producers say that, overall, the global market has snugged up this year, and that strong Far East demand has been a major factor.

Domestically, the two largest market segments, laminates and coatings, are said to be doing fairly well. The construction area has been performing "reasonably well," and the automotive area has been doing "reasonably well," although it has softened up a big recently, says one producer.

GE Plastics Expands 'Ultem' Resins Plant

General Electric has completed \$75 milion worth of expansions at its Mt. Vernon, N.Y., "Ultern" polyetherimide resin facility, egrated manufacturing facility, which GE claims is the largest high-performance plas-lic facility in the US today,includes separate monomer production, polymerization, comounding and water treatment plants, as well scomputerized processing and quality con-trol, and air quality control facilities. The existing "Ultem" resun facility will be main-lained as a semiworks plant for research and

evelopment projects. GE introduced the resin in 1982; it is said to rovide high heat resistance, low smoke genration and excellent chemical resistance and electrical properties for use in aircraft, ackaging, electrical and automotive appli-





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September 29, 1986 CHEMICAL MARKETING REPORTS

CHEMICAL MARKETING REPORTER September 20 1986

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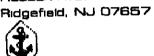
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ALIPHATIC ORGANICS

P&G Glycerine continued from Page 7

longer view and contends that "this sharp increase in P&G's capacity for refined glycerine supports our long-term commitment to grow in the refined glycerine business."

In fact, the market may now be ready for some increased domestic production. Shell Nederland Chemie BV has exited the glycerine market as of the second quarter this year. The company has closed its 25-millionpound-per-year synthetic glycerine facility and reportedly sent its last shipment of glycerine to the US as of July.

According to industry sources, this will reduce US imports on the order of 10 percent

In addition, stronger pricing in Europe starting in the third quarter of this year and falling prices in the US has reduced profitability for exporters to the US and is expected to dry up what had been a surge in imports early this year. "The glycerine mar-ket has been weak this year," says one US producer, who asserts, "with a soft market mports will fall."

So far in 1986 imports through July have expanded relative to last year by 11 million pounds with a total of 32.8 million pounds. But sources note that imports since the second quarter have "stabilized."

RAW MATERIAL PRICE DECLINE Aiding the decline in pricing has been the decline in raw material coconut oil and tallow pricing. One year ago tallow was selling between 17 cents and 19 cents per pound. Now its market value is about 12 cents per pound. Also, tallow has seen a decline of about 35 cents per pound in the last year to its current level of 14 cents per pound.

Refined glycerine prices have dropped about 10 cents per pound in the same period, with current levels for 99.5 percent purity material as low as 75 cents per pound.

However, crude oil pricing has declined steeply during the year and may provide an incentive to synthetic glycerine producers, including Shell Chemical Company, with mothballed units to reassess production eco-

"With crude prices down, synthetic glycerine producers may consider restarting their operations says one observer. He asserts that natural glycerine producers have to be prepared to compete with potential reentries by synthetic glycerine producers. At the mo-ment, Dow Chemical with 110 million pounds of annual production capacity at Freeport Texas is the only manufacturer by synthetic

Producers using natural raw material have undergone significant process improvements according to Constantine Miserlis of Badger Engineers Inc., Cambridge Mass. In total, yield has been improved by 5 to 10 percent and purity has been enhanced to the

point were 90 to 95 percent of material produced attains 99.5 percent purity compared to only 75 percent of output reaching this level five years ago. Mr. Miserlis adds that the most significant improvement has been a 50 percent reduction in energy consumption

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

The Aliphatic Organics index reflects the prices of 20 representative materials in this sector and the quantity of each

produced in 1985.	
Sept. 26, 1986	222.80
Sept. 17, 1986	
Aug. 29, 1986	
Sept. 27, 1985	203.80
36pt. 21, 1000 111111111111111111111111111111	

Chemical Prices Start on Page 32

in the average natural production facility over the last five years.

Procter & Gamble has "rebuilt all their plants in the last five years," according to one competitor who adds that "just about everybody has revamped their distillation

apacity."

Recent activity in facility improvem has led to speculation that most of Procter & Gamble's announced capacity increase may already be in place. A Procter & Gamble spokeswoman maintained, however, that the new capacity remains to be implemented.

METHYLENE CHLORIDE - Atochem Inc. will follow other major producers of methylene chloride with a price increase of 2c. per pound scheduled for October 1, or as contracts permit. The company says that the increase is needed to "improve margins for methylene chloride which have been severely depressed in recent times as a result of declining market prices caused by a weakening in demand for this chemical." Other producers who have announced similar increases are Occidental Chemical, LCP Chemicals and Plastics, Dow Chemical Company and Vulcan Materials Company.

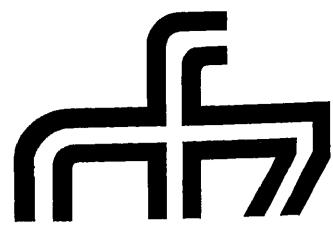
SILANES — Dynamit Nobel Chemicals Silanes-Silicons Group says it will increase the price of its organo-functional silanes by 4 to 6 percent on November 1. Also the company says it is moving from a delivered pricing basis to free on board pricing at that time According to Barry Arkles, general manager of the Silancs-Silicones Group, strong

ALIPHATIC ORGANIC IMPORTS: JULY

BUREAU OF CENSUS FIGURES FOR THE KEY ALIPHATICS

	QUANTITY	SVALUE	QUANTITY	SVALUE
Acetic soldibs.	79,684	41,784	6,694,558	575,200
Acelic anhydrideibs.	39,308	8.533	0,000,000	والمسيب
Butadieneibs.	66,281,243		24,062,281	2,867,078
Butanol, iba.		9,836,527	24,402,261	2100114
Chloroscatic acid	2,014	4,716		761,339
Ethanol (industrial)	3,671,626	1,181,557	2,363,443	781,000
Ethonolominos	4,313,322	3,877,154	5,430,611	4,786,858
Ethanolamines	166,221	44.099	182,689	148,451
Ethylacrylateibs.	4	1,439	8,285	6,353
Ethylene glycol be. Formic sold ba. Glyoxal ba. Hexamethylenetetramine bs.	42,275,703	6,793,814	32,358,114	4,652,048
Formic acid	152,900			199,395
Giyoxai	2,471,486	41,492	1,181,421	66,505
Hexamethylenotetramine	447.7400	782,033	166,181	
Lucho acid		34,428	70,133	23,498
Methanol	1,811,811	955,910	895,852	544,770 ×
Methylene chloride			13,415,460	2,853,175
Mathed athed batons	3,501,843	807,820	1,356,719	231,497
Methyl ethyl ketone			8,162,724	768,046
n-Melhyl-2-pyrrolidoneibs.	02.00	44,142		44 326
Octanol		77,142	35,700	200
				-04 04B
) Pentaerythritol and di-PE		395,980	1,644,113:	
Perchiorogynylane	11405	607,679	934,788	533,3/*
Propylene gxide	29,158,287	4,530,679	6,677,865	1,005,141
Sorbic sciri.	2,002,780	753,507	1,777,382	509.49
Tetraethy) lead	791,B00	1,867,956	361,500	567,647
Trichloroethylene, be.			4011000	إنسيني أأرادي
Mand sainteis shiring proping	5,980,733	914,518	1,567,609	979.446
Trichloroethylene, ibe. Vinyl scetate, unpolymerized ibe. Vinyl pyrrolidone ibs.	7	7.7/4 10	I last toha	
Attital battomonia	279.587	494,869	220,984	491





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CHEMICAL MARKETING REPORTER

September 29, 1986

ALIPHATICS

demand and rising production costs in the US have prompted the company to raise its seli-

ing levels.
Fifteen compounds are affected. Current selling prices range from \$3 to \$20 per pound depending on the chemical.
Three major chemicals affected are

aminopropyltriethoxysilane currently listing at \$7.50 per pound, methacrylpropyl trimethoxysilane listing at \$11.45 per pound and vinyltrimethoxysilane listing at \$5.75 per pound. The above prices are for quantities in excess of ten drums.

According to Mr. Arkles, the domestic

organo functional silanes business is currently valued at \$50 million to \$70 million in sales annually. The materials are used as coupling agents and chemical intermediates.

Pfizer Cites Kahn For Diabetes Work

C. Ronald Kahn of the Joslin Diabetes Center in Boston has been named the sixth recipient of the Pfizer Biomedical Research Award, which will provide unrestricted re-search funding of \$500,000 over the next five

Kahn is a Mary K. Iaccoca Professor at the Harvard Medical School, and is research director of the Joslin Diabetes Center, which he joined in 1981. His research efforts concern the potential causes of Type II, or noninsulindependent, diabetes.

Announcement of the award was made by Barry M. Bloom, president of Pfizer Central Research, who said "the award will support Dr. Kahn's work in understanding the causes and consequences of diabetes."

Research led by Kahn at the center is exploring insulin/insulin receptor interactions, and is uncovering information concerning Type II diabetes.

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DRUGS & FINE CHEMICALS

Penicillin, Ampicillin Prices Firm As Cephalosporin Demand Rises

Penicillin prices have firmed throughout 1986 in a continuation of a trend that began near the end of third quarter 1985. However, observers say that pricing, which has risen mainly because of tight supply, could level off soon.

The market has calmed down considerably," claims one source. He says that prices arestill on the rise, but doesn't think they will continue to increase at the rapid pace of 1986's first three quarters. This source estimates price to be about \$25 per billion units (bu), while another industry observer claims pricing is higher, between \$25 and \$30 per bu. "It's hard to buy (penicillin) at \$26 or \$27." he

These prices are about twice the \$12 to \$15 per bu prices of mid-1985. The falling dollar said to have had something to do with the situation, because some penicillin is imported. However, tightening supply as a re-sult of increased demand is generally agreed to be the major market catalyst.

"Demand hasn't really slacked off," claims an observer, who also says that for a short time this year, "demand couldn't be satisfied." Some players cite the semi-synhelic pencillin derivative cephalosporins as

leading the demand surge.

During the penicillin slump of 1984 and art of 1985, some penicillin players became avolved in that segment of the market, where opportunities were perceived as being meter. As crude penicillin G salts were used more for this purpose supply lessened, because much penicillin G raw material is needed. Other factors which have reportedly ocressed demand are a booming animal penicillin market, a desire to contain medical costs by using relatively inexpensive penicillin, and some new export opportuni-

PRODUCERS PUSHING EXPORTS

Despite the tightness, supply is not so low siocause customers to go without penicillin or lengthy periods of time. "No," says one source, "We're careful about accepting orders," because of the tightness. However, it is reported that inventories are not large. Exports are slightly down through July,

but it's noted that domestic producers are strongly seeking to beef up that market seg-ment. Through July, 27.8 million pounds of encillin G salt were exported, including more than 15 million pounds in July. Through My 1985, 29.5 million pounds were exported. Among the new export opportunities al-ided to above is Bulgaria. While no penidilin G salts were exported to Bulgaria through July 1985, more than 12 million from the been sent to the country through July 1986, making Bulgaria the leading importer of US material, importing nearly three times that of the record largest purhree times that of the second largest pur-draser, Sweden. In July 1986 alone, Bulgaria imported 9.6 million pounds of the G saits. India and Taiwan are increasing imports

duced its imports of penicillin from the US. Through July, Mexico had imported less than 500,000 pounds from the US. Last year, Mexican imports totalled more than 18 million

Ampicillin is also suffering from tight supply, and a source complains, "there's no

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

The Drugs & Fine Chemicals index reflects the prices of 10 representative materials in this sector and the quantity

Sept. 26, 1986 Sept. 19, 1986	211.16
Sept. 27, 1985	211.16

change in sight." Cephalosporin demand is said to be contributing to this, because it is diverting a lot of material. Also, the price of the precursor 6-APA is high, which makes the conversion to ampicillin unprofitable.

Ampicillin prices are estimated between \$85 and \$100 per kilogram, up from between \$78 and \$83 per kilogram at the beginning of 1986. The precursor's price is about \$90 per kilogram, or nearly the same as ampicillin. Ampicillin exports are down considerably, to less than 1.6 million pounds through July, down from 2.2 million pounds through July

HFCS - High fructose corn syrup producers say prices rose all Summer and reached higher levels than in recent peak seasons. Now, as the slow season approaches, prices should begin to soften.

"It was a very firm market this Summer," sums up one producer. "Prices were higher in the third quarter than in previous years....All in all, pricing was higher from a margin

standpoint, largely because of supply." Supply was considered tight throughout the season, because of an increased beverage requirement. This hasn't led to capacity increases, although one producer comments that some suppliers may debottleneck next Summer, in order to produce more HFCS without having to expand capacity.

Current pricing, according to one producer willing to quote prices, is as follows on a 100-pound basis: For 42 percent HFCS on a wet basis, \$12.80 to \$13.30 less two percent f.o.b. For 53 percent HFCS on a dry basis,

BOTANICAL DRUG IMPORTS: JULY

CENSUS BUREAU REPORTS ON SELECTIVE BOTANICAL DRUGS.

	JULY	JUNE
	COLLEGE OF THE STATE OF THE STA	QUANTITY \$ VALUE
Ager Reliams, not, need	440 040 1 007 988	125,196 718,390
Beltams, net. napfib	15.084 72,356	25,085 122,218
net styrex	49,343 118,952	1 1 1
risi, tolu	3,307 18,272	13,683 57,837
Crude snimal glands, organs and partsib Gineng roots	40,902 50,401	109,065 129,025
Gineng grande, organs and partsb Gineng, adv	3,631 164,498	3,004 101,477
Williams	77.24 74.5	97.430 347.100
uncoaldes	29,453 450,153	2,210 44,061
Glycoaldes Gum, Arabic Gum, Guar, riet Gum, Couet Bean	562,704 1,076,969	446,760 578,340
WUM Pres		8,093,393 3,890,241
Gum, Loquet Bean li Gum, Karaya, nat li Gum, Tragacanth, nat li Katural root katural li	2 183,503	850,735 3,838,008
dum, Kereve met	181,984 141,526	
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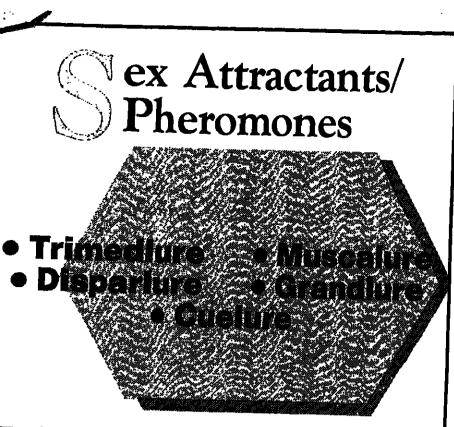
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CHEMICAL MARKETING REPORTER his party Land and had a land and the land September 29, 1986

DRUGS & FINE CHEMS

the price is between \$19.85 and \$20.50 less wo percent f.o.b.

HFCS contracts are currently being examined by the Commodities Futures Trading Commission, the governmental regulatory body. A spokesman for the Minneapolis Grain Exchange says final approval of the contracts should come in about two or three months. He says the Commission has been studying the contracts for eight or nine months, and that approval or disapproval generally takes between 7 and 18 months.

KOLA NUTS — The price of kola nuts is between 50c. and 53c. per pound, according to a major importer. This represents a slight firming from the beginning of the year, and is attributed to rising costs, such as ocean freight expenses.

Despite the higher price, one source says 'we have few customers" because of slackening demand. According to his estimates. demand has dipped about 10 percent since last year, and about 20 percent from two

years ago.
No definitive explanation is given for the decrease in demand, although the source comments that kola extract cannot be used in increasingly popular caffeine-free soft drinks, and adds that there may be a tendency for diet soft drink manufacturers to shy

Because of the demand situation, supply is considered plentiful. Most of the kola nuts come from Africa, but a source says "there's plenty in Jamaica this year, too."

VITAMIN E - BASF Corporation recently published the results of two studies about tocopheryl nicotinate (vitamin E nicotinate) as a vasodilator (dilator of blood ves-

According to BASF, the results of both tests indicate that tocopheryl nicotinate heals burns as well as methyl nicotinate, but without the same degree of redness or hot

Tests were conducted measuring the subects' blood flow. The greater the blood flow, the more likely that redness, or a hot spot, will occur. The first study involved five subects, whose blood flow was assessed after their skin was heated with a metal plate equipped with a heater coil. Tested were tocopheryl at a 0.5 percent concentration, mixed with sunflower oil; methyl nicotinate at a one percent concentration, mixed with sunflower oil; and tocopheryl nicotinate at a two percent concentration, with no sun-

BASF says that 0.5 percent tocopheryl nic-otinate with sunflower oil increased blood

flow by 13.9 percent, while the one percent methyl nicotinate with sunflower oil is creased blood flow by 20.13 percent.

BASF's spokesman continues that events tocopheryl nicotinate without sunflower oil at a two percent concentration only in at a two percent concentration, only lecreased blood flow by 17.58 percent.

Pigment Dust

the only pigments that have undergone the new electrostat process," says Dr. Wriede "Plans call for the gradual expansion of the list of commercially available treated pro-

Eventually, the company says treated products will include the organic pigment that Heubach has been making since the company purchased the facilities and colorant line of E.I. du Pont de Nemours Co. two years

ago.
"We expect the low-dust development to reverse the trend away from chromate pig-ments that has resulted from the need to meet OSHA dust restrictions," says Mr. Waldron. "The trend has been toward the use of organic replacements, which have been cosiderably more costly and generally less at isfactory in performance.

For the production of the new low-dust olgments an expansion/modernization of Heubach, Inc.'s inorganic pigment division has been completed and is on stream. The modernization included the installation of the "Electrostat" unit, completion of a 21million-gallon-per-day waste water treatment facility, along with a 20-percent in-crease in capacity for chrome yellow and nolybdate orange pigments.

McKesson

Continued from Page 9

the way to becoming an integrated nation-wide distributor of a broad range of nondurable products and related services for people," Mr. Field commented.

Univar has agreed, upon completion of the transaction, to offer employment to all of the employees of McKesson Chemical. As required by law, employees covered by collective bargaining agreements will have both their employment offers and special pay arrangements controlled by such agreements, a spokesman for McKesson said.

The transaction remains subject to review by the Federal Trade Commission under provisions of the Hart-Scott-Rodino Antitrust

Improvements Act.
McKesson Chemical has operations in 35 states of the Continental US.

The largest competitor of the merged company in chemical distribution will be Ashland

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Sodium Bisulfite

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Leaded Gas Banking Not Working, Dingell Says

providing the benefits it was intended to achieve," says Rep. John Dingell (D-

The program was initiated by the agency to lower the cost burden and provide flexibility for the gasoline industry in meeting more stringent standards for the lead content of

In releasing a report by the General Accounting Office, Rep. Dingell says the failures appear to result from "insufficient and unreliable reporting practices, as well as inexplicably lax enforcement by EPA."

The report concludes a lengthy investiga-tion by GAO which was initiated at the request of the House Energy and Commerce mmittee on investigations and oversight, chaired by Mr. Dingell.

In a letter to EPA Administrator Lee M. Thomas, Rep. Dingell says "the program appears to be understaffed and poorly planned," and suggests that "with the program half over, EPA must catch up" in order to carry out the program's objectives and meet its obligations under the 1985 farm bill to monitor the actual lead content needed for

In March 1985, EPA issued a regulation significantly lowering the allowable lead content of gasoline which was aimed at reducing vehicular lead emissions into the atmosphere. EPA estimated that such a reduclion would decrease the incidence of ardovascular diseases, reduce automotive maintenance costs, and increase automobile

In order to ease the new financial burden carried by refiners and importers of leaded gas and to facilitate their transition to more kringent standards, EPA established a three-year "banking" program.

Under the program, producers and refiners that sold leaded gasoline in 1985 at a lower concentration than the required stand-

Environmental Protection Agency's and, could "bank" or obtain a form of credit program for banking lead "may not be for their unused lead rights. The refiners could then opt to use them at a later date or sell their rights or credits to other program participants who produced or sold leaded gas in excess of the new standard.

EPA's goal was to reduce concentrations of lead in the atmosphere without placing undue stress on any one refiner. The collecting or using of such rights is to be completed by the end of 1987.

According to GAO, the banking program has attracted a significant number of partici-pants, and as of June 16, 1986, accumulated about 9 billion grams of lead "rights."

Under EPA's regulations, program participants are required to submit quarterly reports to EPA detailing, among other items, the total number of gallons of leaded gasoline produced and the average lead content of each gallon produced.

The reports must also cover the refiners' "banking transactions," such as the number of rights or credits accumulated and the amount transferred. EPA is responsible for overseeing the reporting process and enforcing violations against those who do not meet program requirements.

However, as of June 1986, GAO found that "EPA had not completed processing and reviewing reports for the first year of the program." Even though the period to claim lead rights ended last December, "EPA has no firm data on the balance of lead rights available for use in calendar years 1986 and 1987," according to the report.

The GAO also said that refiners' reports are replete with inaccuracies and discrepencles which "may have resulted in the use or transfer of invalid rights," and that the agency's failure to check or verify reports may lead to EPA reliance on incorrect data. This could result in the release of unlawful levels of lead into the atmosphere.

Even though GAO found several violations of the regulations, no enforcement actions had been taken at EPA.

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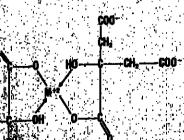
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Oil and Products Continued from Page 5

annually. Lower prices will exert the largest impact on residual fuel oil demand, which will nearly double by the turn of the century.

ergy reserves. Among other changes, it recommends repeal of the windfall profit tax. The tax currently collects no revenue but

U. S. crude oil production will fall 2.5 percent a year, from 8.9 MMBD in 1985 to 6.0 MMRD in 2000, and natural gas demand will decline in the near term and stabilize at lower levels within the next few years.

Overall U.S. energy demand will grow at a ate of 1 percent a year. Oil will supply more han half the increase; coal and nuclear will supply the rest.

In the year 2000, oil will account for 43 percent of total U. S. energy demand, compared with 42 percent in 1985. Natural gas will account for 19 percent, versus 24 percent

On a free-world basis, oil demand will grow just over 1 percent a year through 2000. Oil will supply 42 percent of total energy requirements in 2000, compared with 46 percent in 1985. Oil consumption will rise to 53 MMBD in 2000, up from 45 MMBD in 1985.

Gasoline demand over the period is expected to rise by 1.5 MMBD. Demand for middle distillates — kerosene and diesel will be the fastet growing. The share of world energy supplied by natural gas will remain constant at about 18 percent.

GROWING DEPENDENCE Global dependence on OPEC oil will grow dramatically, says the report. Non-OPEC crude oil production will fall from 22.5 MMBD in 1985 to 18.5 MMBD in 2000. This trend will not be reversed by the anticipated rapid price rises in the 1990s. Exports from the Communist Bloc will end by the mid-1990s, and the region is likely to be a net importer by 2000.

Steady demand growth and the decline in OPEC oil supplies will lead to rapidly growing dependence on OPEC, whose share of world oil supply is expected to reach 60 per-cent by 2000, compared with 38 percent in

"In the past, direct government intervention in energy markets has led to economic distortions and inhibited attainment of a secure domestic supply of energy," the study points out. "Therefore, initiatives such as im-position of import fees on crude oil and petroleum products should be avoided."

The most direct method of improving energy security is to develop reserve capacity that can replace disrupted supplies, the re-port states. It recommends filling the Strategic Petroleum Reserve to the targeted level of 750 million barrels as quickly as fiscally responsible, and encouraging U. S. allies to develop similar petroleum inventory poli-

The study advocates local, state and federal tax policies that do not discourage investment in the development of domestic en-

Liability Rule Won't Change

still imposes an accounting burden on the oil

companies, and he thinks that CPI firms will shift from marketing individual chemicals to

Chemistry and chemical engineering will be redefined, he believes, so that, by the next

century, CPI companies will be doing a lot of things that are not strictly chemical, as

He also expects that there will be a new

cycle of chemical innovation, and that there

will be more chemical product lines, but that

they will be smaller in volume. Finally, he

suggests that higher profits will return to the

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Commodity Output

Continued from Page 7

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viewed by today's standards.

Advocates of a uniform Federal product liability law gained a symbolic victory in the Senate Thursday night, but actual reform will have to wait at least

After voting 84-13 in favor of considering a business-backed plan sponsored by Sen. Robert Kasten (R-Wis.), the legislation was pulled off the floor by Majority Leader Robert Dole (R-Kan.), in the face of a lengthy

Noting that Congress intends to adjourn for the year October 3, Sen. Dole said the Senate did not have time for a long debate on the bill, which was designed to curb the skyrocketing cost of product liability insurance by limiting lawsuits against manufacturers.

Industry and insurance groups have been seeking such legislation, declaring that a crisis has been brought on by a glut of lawsuits and unreasonably high jury awards.

Trial lawyers oppose a Federal role in what has for decades been a state regulated issue. They say spiraling premiums were brought about by overly ambitious policy sales by the industry during the 1970s.

A revised proposal offered by Sen. Kasten last week dropped the controversial \$250,000 cap on awards for pain and suffering contained in earlier legislation in an attempt to gain more widespread support.

Both proposals would encourage out-ofcourt settlements and penalize lawyers for frivolous complaints. They would also make it more difficult to sue manufacturers for millive damages, and ensure that manufacburers could not be punished for following

as a host of business groups including Chemi-cal Manufacturers Association, US Chamber of Commerce, National Association of Manu-facturers and the Business Roundtable.

Superfund Tax

Continued from Page 3

chemical feedstocks, and \$1 billion from general revenues. The balance would come from interest and recoveries from parties held responsible for creating superfund dump sites. In addition to a \$2 billion broad-based cor-

porate tax, the House plan included the \$1.4 billion levy on chemical feedstocks, a \$2.5 billion tax on petroleum, \$1 billion in wasteend taxes, plus contributions from interest, recoveries and general revenues.

Two oil-state Senators — Russell Long (D-La.), and Lloyd Bentsen (D-Tex.), vowed to fight the House's proposal for heavy taxes on the oil industry,

"You aren't going to make any money from them once they're gone," Sen. Long said, warning that further financial pressure might force more oil companies out of busi-

votes to significantly boost taxes on the oil industry, he would try to defeat the superfund conference report on the Senate floor.

"I will fight the reauthorization unless we get a more equitable distribution" of the taxes, he warned.

The all-but-certain inclusion of a broadbased tax raises another potential problem
— the threat of a presidential veto. Treasury Secretary James Baker has sald he will recommend that President Reagan veto any bill containing either a broad corporate tax or a substantial increase in taxes on oil and feedstock chemicals.

If the reauthorization bill is not passed by October 1, EPA's Mr. Thomas said he would

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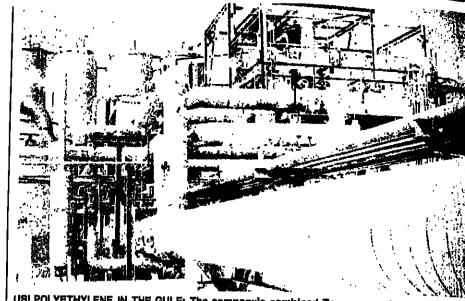
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CHEMICAL MARKETING REPORTER

September 29, 1986



USI POLYETHYLENE IN THE GULF: The company's combined Texas operations are capable of buying 1.8 to 1.9 billion pounds of ethylene per year. Shown here is a high density polyethylene unit at La Porte, Tex. Capacity for HDPE at La Porte is rated at 550 million pounds. USI has 310 million pounds of HDPE capacity at Port Arthur, Tex.

0901

1011

1024

3001

USI at the Top

Continued from Page 3

growing Asian market. After a year's hiatus, Mr. Bauman predicts that China will again import large quantities of polyethylene next

USI itself has suggested that supplies of LLDPE and HDPE will fall short of projected demand by the early 1990's. The company says that the two resins will each grow 6 percent annually between now and 1992.

Without capacity additions, the company has forecast that shortages of LLDPE and HDPE may crop up by 1988, and that capacity may fail 30 percent below projected demand by 1992.

Interestingly, USI projects that demand for conventional LDPE, the product in which it will hold a truly dominant position once the Enron acquisition is completed, will remain static at 5 billion to 5.2 billion pounds between now and 1992.

However, Mr. Bauman points out that while demand for LDPE will remain flat, so will capacity, and operating rates are already over 90 percent. And, he suggests oper-ating rates will further improve next decade as some older LDPE reactors are closed

In addition, Mr. Bauman notes that while LDPE units may be more expensive to operate than newer LLDPE plants, many are fully depreciated. Also, specialty grades of LDPE can only be produced in conventional

He says conventional high-pressure product will retain its market niche, and while large amounts of product will be displaced by LLDPE, large quantities of material will also be required to blend with

Mr. Baggett also notes that LDPE currently fetches a 2-cent-per-pound premium over LLDPE. So while LDPE may not appear

to be a growth industry, observers point out that it can still be very profitable for USI.

Mr. Bauman says USI will gain several additional benefits from the Enron purchase. One is increased operational efficiency that can be gained from the combination. He says the longer product runs provided by combining the operations will reduce the output of off-specification material, while improving the quality of the product.

Fine Chemicals Bulk!

He also notes that USI will acquire a large quantity of ethylene capacity from Enron The company has 1.7 billion pounds of ethylene capacity split between Clinton and Morris, and this total will improve self-suff-

ciency.
However, CMAI's Mr. Baggett says USI will remain the largest purchaser of ethylene in the US. The Tuscola, Ill. complex, with a

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uracil	_ * ;		Sodium tadide, USP Ammonium Chloride, ACS Bismulh Subcarbonate, USP
1037 2-mercapto- 4,5,6-triamino-	į.		Bismuth Subnitrate, USP Bismuth Subgallate, USP
pyrimidine 1 1 040 uracil-5-car- boxylic acid			Mercuric Bromldo, ACS Mercurous, Nilrato, ACS Paracetamol, USP
1052 cytosine 3001 adenine 3005 quanine hydro-	5 kg * 36 kg *		Mercuric Chloride, ACS Mercuric Iodide, ACS Mercuric Oxide, Yellow, ACS Mercuric Oxide, Red, ACS
čhloride	200 kg * i00 kg *		Mercuric Nitrate, ACS Mercuric Acetate, ACS Mercurous Chloride, NF Mercurochrome, NF
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3021 foramidine acetete	<u> </u>	'	Di-lodohydroxyquinolino, USP Wo can custom manufacture to you
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400-million pound ethylene cracker has enough of the olefin under normal circumstances, Mr. Baggett notes. But when the 66million-gallon-per-year synthetic ethanol plant located there is running full out a 50-million pound ethylene deficit results. Mr. Beggett also estimates that Enron's Clinton plant is a net consumer of ethylene if the LDPE and HDPE unit are running at capacity, Following the installation of the "Unipol" LLDPE unit at Morris in 1984, that facility also fell into an ethylene deficit situation. The two Enron plants could require up to 100-million pounds of ethylene a year beyond

what they make, he says. USI's Gulf Coast operations at La Porte and Port Arthur, Tex. will continue to be enormous buyers of ethylenc, Mr. Baggett says. The two facilities are capable of buying 1.8 billion to 1.9 billion pounds of ethylene per

year, he says.

A major benefit of the Enron acquisition, according to Mr. Bauman, is USI's entree into the polypropylene market through Enron's on-pound PP plant in Morris. Enron also owns an oriented PP film plant in Streamwood, Ill. that Mr. Bauman calls a "stand alone money maker."

While the Morris PP plant is not big, Mr. Bauman notes that 50 to 75 percent of the plant's output is copolymer material which carries a 6-to-10-cent-per-pound price premium over standard homopolymer. Polypropylene also enjoys the lowest raw material costs and highest selling prices among all polyolefins, he adds.

The Enron purchase also includes the company's ethylene oxide/ethylene glycol capacity at Morris, a product line that some analysts question whether USI will retain. In August, Enron sold its branded products

group, featuring "Peak" antifreeze to Old World Trading Company, Des Plaines, Ill. The product group consists mainly of EGbased antifreeze and coolant products for both retail and industrial sales.

As part of the agreement, 60 to 65 percent of the Morris EG output is committed to Old World. Analysts have questioned whether USI will be comfortable either with this arrangement, or with the EO/EG business at all. The company declined to comment on the future of the EO/EG operations.

The Enron Chemical purchase and the decision to divest its spirits and wines group will focus National Distiller's business operations on chemicals and propane marketing.

Last year, the company posted \$729.6 mil-lion in petrochemical sales and \$307.8 million in oleochemical revenues. Enron Chemicals sales, excluding the branded products group, totaled \$530 million last year.

National's Suburban Propane unit, a nationwide marketer of propane gas, had sales totalling \$571.6 million last year. The company's spirits and wines group posted \$680 million in sales.

For its part, Enron says it wants to concentrate on its core businesses, natural gas transmission, oil and gas exploration and production, and liquids operations. Enron took its present name in April, 1986. The company was formed when Houston Natural Gas merged with Internorth last year.

Mutagen R&D Lack

Continued from Page 7

ble mutations are unknown; no evidence directly links chemicals or radiation with mutations in human germ cells. Experiments with insects and animals, however, have shown that some substances in agricultural, industrial, and pharmaceutical chemicals in use today cause heritable mutations in some lower animals.

Recent advances in molecular genetics have opened the door to new and innovative technologies that may offer a great deal more information about DNA. Because most of these technologies involve examining DNA directly, they represent a greater degree of sophistication and potentially a major advance in determining the factors that can cause mutations.

The techniques now used embody more general and indirect approaches that rely on the clinical manifestation of disease, major changes in chromosome number or structure, or biochemical changes in certain blood proteins, none of which offers specific information about the variety of mutations that

can occur, their frequency, or their causes.

The emerging technologies may provide reasonable and verifiable ways of detecting new mutations in human DNA and proteins, but they are not yet efficient enough to be used on a large scale.

With continued suppport, OTA says, some of the new technologies described in the report, or derivatives of them, could be available in the next five to 10 years for largescale use. OTA points out that their ultimate application in epidemiologic studies to deter-mine rates and patterns of mutations will be complex, requiring the collaboration of a large number of scientists.

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CHEMICAL MARKETING REPORTER

September 29, 1986

PERFUMES & FLAVORINGS

Synthetic Hydroxycitronellal: Spot Prices Are Holding Steady

Spot prices of synthetic hydroxycitronellal have been holding steady at \$5.50 to \$6 per pound, despite rising imports from Europe. Imports through July totaled 250,467 pounds, exceeding the full-year 1985 figure by 55,000 pounds.

Most of the Imported material is from West Germany, 143,320 pounds, comprising over 57 percent. The United Kingdom has exported 34 percent, or 85,803 pounds. Trade sources report no new usages for the perfuming compound and no substantial increase in demand.

An aroma chemicals importer asserts that domestic producers of synthetic hydroxycitronellal are losing market share to foreign material. "Due to the fact that the domestic manufacturers are no longer competitive enough to hold their share of the market, imports are increasing." he says.

It is also noted that the weaker US dollar makes imported material more competitive here.

Domestic producers, however, deny that they are losing market share to importers. "We have not seen any change in our market; it has been a straight line for the past three years," says one producer.

A domestic producer points out that Proctor & Gamble and International Flavors & Fragrances have switched compounding activities from Europe to the US, increasing the US requirement for synthetic hydroxycitronellal.

An aroma chemicals broker suggests that experimental compounds from smaller importers may be enjoying a rapid turnover. "The market shares of some importers could be up because of the success of their most recent compounds." In contrast to this, he says, "the annual requirement of the larger companies is down."

ESSENTIAL OILS

INDONESIAN OILS — Indonesia devalued its currency, the rupiah, more than 25 percent September 12, down from 1,132.5 rupiahs per dollar to 1,640.2. The currency devaluation affected Indonesian exports less dramatically than it did the domestic economy.

omy.

"When other countries devalued their currencies, such as France, the percentage of decline meant a similar decline in prices," said an essential oils importer. "Indonesia's, however, is for internal consumption only." Most prices for essential oils from Indonesia, therefore, remained static.

therefore, remained static.

The higher priced oils did feel the effect of the devaluation, falling in line with the rest of the market. According to a US essential oils broker, "there has been a slight weakening of those essential oils that had been pushed up artificially, the more expensive ones." The importer agrees: "The devaluation of the ruplah combined with the ready availability of

the material led to their decline"

Examples of inflated oil prices that fellare nutrineg, patchouli and cloveleaf. Nutrineg of is down from \$33 per kilo, cost and freight, New York on September 12 to \$30 per kilo September 22. Patchouli oil prices also fell during the same period from \$22 per kilo cost and freight. Now York to \$10 per kilo cost and freight.

and freight, New York to \$19.50 per kilo.
Cloveleaf oil recorded a marginal decrease of 15c. per kilo, cost and freight, New

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

Caraway Soed, Egyplian, 2c. per ib.
Cardamoms, Indian bloached, 25c. per ib.
Citronella Oil, Javan, 20c. per kilo
Cumin seed oil, \$15-\$20 per kilo
Fannel seed, Indian Recleaned, 7c. per ib.
Leurel leaves, Turkish semi-select, 40c. per ib.
Leurel leaves, Turkish fancy, 35c. per ib.
Nutmegs, Whole & Reconditioned, 10c. per ib.
Oregano, Greek & Turkish, 45c. per ib.
Pelligrain Oil, South American, 25c. per ib.
Rosemary, Spaniah & Portuguese, 2c. per ib.
Rosemary, Yugoslavian & French, 3c. per ib.
Tarragon, French Fancy, 45c. per ib.
Thyme, French, 10c. por ib.

CHANGES/DOWN

Cardamoms, Green, 50c. \$2.25 per lb.
Cardamoms, Mixed Greens, \$1.00 per lb.
Celary Seed, Indian, 1c. per lb.
Clove leaf Oil, Indonesian, 15c. per kilo
Cumin seed, indian & Iranian, 5-10c. per lb.
Cumin seed, Indian & Iranian, 5-10c. per lb.
Cumin seed, Irukish, 3c. per lb.
Fir Needle oil, Canadian, 80c. per lb.
Patchouli Oil, Chinese, \$4.50 per kilo
Peppermints, Crushod/Cut, 5c. per lb.
Poppy seed, Australian, 2-3c. epr lb.
Spearmint Oil, Chinose 60°s, \$1.50 per kilo

PERFUMES INDEX

The Perfumes & Flavorings index reflects the prices of 11 representative materials in this sector and the quantity of each supplied in 1985.

- and outbling in 1900.	
Sept. 26, 1986	. 71.00
Sept. 19, 1986	71.00
Aug. 29, 1986	. 71.00
Sept. 20, 1985	. 71.00

Chemical Prices Start on Page 32.

York because, though its original price had been driven up, its ready availability is not as great as the other oils.

Another oils broker regards the stabler oils from Indonesia as unaffected: "Those oils that have been firm and not in ready supply were not affected." He includes citronella oil, sandal wood oil and Javan vetyver oil among them.

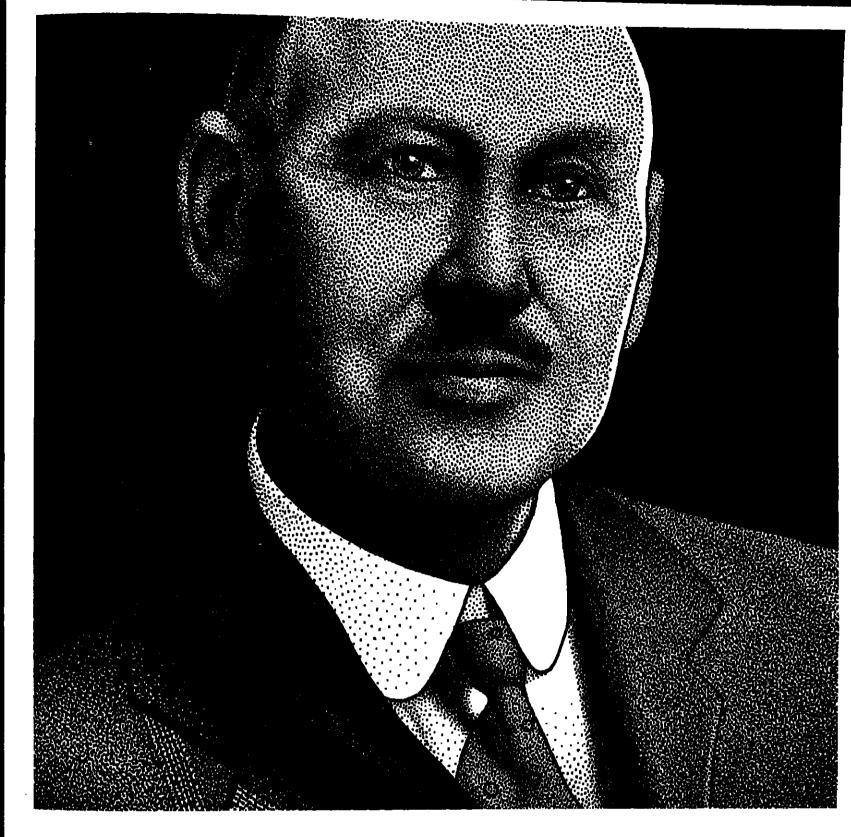
BLACK PEPPER — In spite of the Indonesian currency's devaluation, Lampong black pepper prices firmed Sc. per pound in the last two weeks to \$2.08 per pound.

Two reasons given were an abnormally small crop, 7,000 tons in comparison to an average of 12,000 to 13,000 tons, and soft pricing prior to the crop's harvesting.

SEED & SPICE IMPORTS: JUNE

A SELECTION OF STATISTICS FROM THE BUREAU OF CENSUS.

Celary seed ib. 446,386 919,531 4,101,037 378,34 Cinnamon, Unground ib. 178,824 198 191 2,773 143 178,84						
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· CHEMICAL MARKETING REPORTER

HEAVY & AG CHEMICALS

Oxy, Church & Dwight Continued from Page 7

& Dwight partnership.

LCP had produced potassium carbonate in Syracuse, N.Y., through a tolling arrangement with Allied Corporation, but shut that plant after Allied announced it would close its Solvay complex in Syracuse.

Church & Dwight says its interest in potassium chemicals stems from its strategy of growing through internal development and the acquisition of products complementary to its core business.

The company notes that the marketing characteristics of potassium carbonate are closely related to those of its existing carbonate products, particularly sodium bicarbonate, ammonium bicarbonate, and strontium

Since August of last year Church & Dwight has owned 49 percent of Sales y Oxidos, a Mexican producer of strontium carbonate. Both strontium carbonate and potassium carbonate are used in specialty glass manufacturing and consequently, says the company, are sold to many of the same cus-

Church & Dwight expects a major growth area for potassium carbonate will be a new product it introduced about one year ago called "Hay Dry", the main ingredient of which is potassium carbonate. "Hay Dry" is an agricultural product used to accelerate the curing of hay.

On the whole, according to Occidental, the potassium carbonate market should grow at an estimated 2.1 percent per year. Much of this projection depends on the specialty glassware market, which is the largest end · use for the product and which is also seen as a growth area.

INFLUX OF IMPORTS

This market has suffered some in recent years as the influx of imported televisions and personal computer displays displaces do-mestic outlets for potassium and strontium carbonate.

Imported potassium carbonate is a factor in the business, accounting for roughly 10 percent of the market. About two-thirds of imports are from France, where Rhone-Pouenc is said to produce.

West Germany, where Dynamit Nobel AG produces, follows France as the next largest exporter to the US. Also present are the Japanese, and E.I.F. Frutarom Ltd. of Israel.

Imports are on the decline, however, victim of the dollar's weaker value, according to one source. Through July of this year, less than 1,600 tons were imported, down over 25 percent from the corresponding period in 1985. Just over 3,000 tons were imported in

Pricing is stable, despite the changes in ownership. Liquid material at 47 percent ownership. Liquid material at 47 percent strength lists at \$14.60 per hundredweight in tanks f.o.b. Muscle Shoals. Calcined material lists at \$32.50 per hundredweight in cars and trucks, \$35.20 per hundredweight in bags both f.o.b Muscle Shoals. One source says that selling prices for bagged material may

mond's chemical business or the Church be closer to 32 cents per pound in some in-

BASES & SALTS

CAUSTIC SODA — Two caustic soda price increases were announced last week, both imed at fourth quarter contracts. Occidental Chemical is increasing its off-list pricely \$25 per ton, effective immediately on spot sales and as contracts permit.

Present list price schedules remain in ef-

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

Causlic sods solution, \$25 per ton Sodium chlorate solution, \$25 per ton

CHANGES/DOWN **HEAVY & AG INDEX**

The Heavy & Ag Chemicals index reflects the prices of 18 representation materials in this sector and the quantity

or each produced in 1905.	
Sept. 26, 1986	113.69
Sept. 19, 1986	
Aug. 29, 1986	
Sept. 27, 1985	

Chemical Prices Start on Page 32

fect as follows: \$290 per ton for standard grade and \$310 per ton for membrane or mercury cell grade, f.o.b. Tacoma, Wash; \$210 per ton and \$230 per ton, respectively, f.o.b. Taft, La.; \$245 per ton and \$260 per ton, respectively, f.o.b. Niagara Falls, N.Y. Prices are freight equalized with nearest competitive producing point.

Atochem Inc. says it is increasing its offschedule prices for caustic soda liquid diaphram cell grade as well as rayon grade. The increase will be effective October 1 and as contracts permit

The company notes that while it may be lifficult to return immediately to published list prices, a \$20 to \$25 per ton increase in off-list prices, depending on grade, is necessary to improve the poor margins of the causle soda business.

Atochem says that caustic soda invento ries are on the decline both in the US and in Western Europe due to better than expected demand, primarily by the pulp and paper industry. Atochom Inc. of Glen Rock, N.J., is a subsidiary of Atochem SA of France, &

major producer of caustic soda and chlorine. SODIUM CHLORATE - Occidental Chemical is announcing a \$25 per ton off-list increase in the price of sodium chlorate (R-2 solution). The increase is effective immediately on spot sales and as contracts permit.
Oxychem's list price of \$420 per R-2 unit

remains unchanged. An R-2 unit consists of approximately 1.0 ion of anhydrous sodium chlorate and 0.6 tons anhydrous sodium chloride dissolved in 2.4 tons of water.

INORGANIC CHEMICAL OUTPUT: JUNE

SELECTED FIGURES IN SHORT TONS FROM THE CENSUS BUREAU.

Aluminum sulfate, commercial	JUNE '86	MAY'86 97.534	.UNE '65 86,697
Calcium carbide, commercial Calcium phosphate, dibasic appyri	106,463	19,139	24,680
Calcium phosphate, dibasic anhyd	16,113 44,282	39.535	65,982
Caustic soda, dry Caustic soda, lipuid	16,691	16,412	19,063
Caustic soda, Ilquid	946.138	939,691	934,800
Chlorine liquid	896.958	899,846	929,06
Hydrochlorie and	705.899	707.848	641,86
	274.802	299,266	245,7% 16.49
PUMIPANAM MANAGERIA	10 107	13,163	10,77
	11.484	12,452	10.51
	27.850	12,069	188
	2.111	2,393	4.52
	8,165	6,383	7.54
Phosphorus trichlorids Phosphorus trichlorids Poisesium hydroxide, liquid	8,126	7,994	19.50
Sodius pyrophosphale, anhyd.	222	4 004	1.30
Striken makes	1,938	1,391	20 20
Polespurs dichloride Polespurs hydroxide, liquid Polespurs pyrophosphate, anhyd, Sodium chlorate Sodium metal Sodium sulfate, anhyd	21,090	42,100	r 6,00
Sodium sulfate, enhyd	Control on con Miles	8 7 7 7 A	68,21
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Pfizer Neutralizes Acid in Mass. Lakes

Pfizer, Inc. is branching out. The company embarked on a program this Summer using calcium carbonate to raise the pH level of several lakes and ponds in New York's Adirondack Mountains, Plymouth and Cape Cod, Mass. damaged by acid rain. Operating from its Adams, Mass. plant, Pfizer recently delivered a shipment of limestone to Florida, Mass. where it was used to restore and neuicalize the acidified North Pond in the Berk-

Overseeing preparation of the neutralizing agent were C.W. Kleczko, lime and limestone product manager for Pfizer, and executives International Science and Technology Inc. IS&T, a contracting firm located in Reston, Va., designed and operated the treatment

project in collaboration with Living Lakes Inc. of Washington. The program is conducted in cooperation with the US Fish and Wildlife Service who has played a major role in developing strategies to protect the nation's water resources.

Massachusetts was chosen as a research site because it once had a thriving sport fishery. Plizer says, but its fish populations have been reduced by acid deposition.

At the staging area, a dry powder form of calcium carbonate, or limestone, was transferred by tank-truck to a waiting helicopter at the 18-acre target pond. The helicopter, specially equipped with a storage tank and spray nozzle, was then filled with a slurry of Pfizer's "Eco-Cal 14." As the helicopter flew over the pond, the mist was released.

The acid level was effectively reduced and fishing and swimming could be resumed within a few hours after spraying.

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Pesticide Reform

(R-Minn.), is expected to propose the same requirement when the Senate bill reaches the

floor.
NACA says it is also opposed to some pro-visions in a groundwater protection amend-ment adopted by the House. Parts of the program would be placed under the jurisdiction of the House Energy and Commerce Committee, where the industry believes its interests would not be well served. The committee's panel on health and environmental issues is chaired by Rep. Henry Waxman (D-Calif.), a strong critic of the chemical industry who favors stringent regulation.

Environmental groups, seeking to delete a uniform tolerance provision from the Senate bill, were disappointed when the House voted 214-121 to include it in its version.

The amendment to prevent states from adopting stricter standards than those set by the Federal government for pesticide levels in food products "jeopardizes" the FIFRA reform movement, says a spokeswoman for the environmental coalition, the Campaign for Pesticide Reform.

Unless the provision is stricken from the Senate bill — an uphill battle — she says the

environmental lobby may oppose the bill.

One environmental group, the National
Coalition Against the Misuse of Pesticides, says it has decided to oppose any FIFRA bill that contains a uniform tolerance provision.

"We are not going to support a bill that mandates uniform pesticide tolerances — no way," says the group's director Jay Feldman. He says the benefits of FIFRA reform "are not worth the intrusion into state authority over food contamination problems.'

Al Meyerhoff, an attorney for the National Resources Defense Council, a member of the CPR, says the uniform tolerance provision is being pushed by large food processing com-panies who "see the handwriting on the wall: that as pesticides are tested, at least half of them will be found to cause cancer."

But Jeffrey Nedelman, a spokesman for the Grocery Manufacturers Association, notes that the prohibition against state regulation would apply only to pesticides initially registered for use after current health safety requirements went into effect in 1985, and for older pesticides that have been reregistered by Environmental Protection Agency in accordance with the new standards.

"That safety level ought to apply uni-formly across the country," he says. "When it does, farmers and manufacturers are assured of markets, and consumers are assured of the safety of the food they purchase."

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COATINGS & PLASTICS

Plasticizer Producers Continued from Page 5

cent cheaper than domestic product, had needs. eroded prices to the point where list values had become almost meaningless. Depending upon location (hence, availability of imports), plasticizers were seiling anaverage of 20 to 30 percent below list. DOP, the most widely-used plasticizer. listed from 40 cents per pound to 45 cents per pound, was being sold from 28 cents per pound to 34 cents per pound in various parts of the US.

A sorely needed July increase of 2 cents per pound, which producers now describe as "largely successful," helped narrow the gap between selling and list prices. In August and through September selling prices for DOP are said to have firmed up to 32 to 36 cents per pound. The October increase is still needed to pull margins up to a realistic level, producers assert.

With a weaker US dollar and more profliable markets abroad, imports are not playing the major role they did last year in the US market, producers report. Although, the Brazilian and Taiwanese products are "still there," they are generally of lower quality, producers say, and seem to be affecting only spot DIDP and DINP prices presently, though they acknowledge that the situation may change.

US DEMAND FLAT

US demand for flexible PVC has been flat since 1980, growing by 3 to 3.5 percent in good years. Where 1979 saw a flexible PVC market of 2.6 billion pounds, demand fell to 24 billion pounds in 1982. Last year, according to SPI statistics, demand (cli to 2.3 milion pounds, 32 percent of the total PVC markt. This year, demand is expected to reach 24 million pounds; no significant future growth is anticipated.

Controversy has surrounded the use of DOP, the highest volume phthalate plastither, in flexible vinyl products since the early 1980's, when the National Cancer Intiute published findings that the plasticizers caused cancer in rodents. The National Resources Defense Council and other environmental groups moved to have the plasticizer

The EPA ruled that improper experimental procedure flawed the study's findings and as supported CMA's continued production of DOP. As one plasticizer producer summarizes problems with the study, results could not be duplicated with different species of rodents. In addition, it was not definitively established that DOP, and not other esters involved in flexible PVC production, caused the results. NCI's findings, however, had a definite impact on some DOI' and phthalate plasticizor markets, and the Consumer Prodects Safety Commission continues to contest its use. Use of DOP-treated PVC in toys and baby products fell sharply in the early 1980's, and continues to fall. It is no longer used in wrapping. In 1985, SPI figures show that flexible PVC use in toys fell 23 percent from the previous year; over the same time period, use in upholstery fell 14 percent and in packaging, 11 percent.

Producers of DOP say that customers fears have been allayed somewhat by EPA's stand. Those end-users who felt uneasy about possible carcinogenicity have stopped using the plasticizers, but manufacturers feet that others will continue to turn to DOP, DIDP

THERMOPLASTICS BULK PRICES IN SEPT. 1986

	SEPT. AUG	
D	(US\$) (US\$)
Polyethylene-LD,linerlb.	29 .242	4
. ALL MANAGEMENT OF THE PROPERTY OF THE	28 24-2	16
. AND REPORTED BY	28-30 .25-3	X)
" "THURNISMS modelless I lie	33-36 ,32-3	Ŋ
· STOTING O.A.	35-37 34-3	ıs
Polyvinyi chloride, pipe	28-29 28-4	d

Far East, typically priced 15 to 20 per- and DINP for general purpose plasticizer

Within the overall phthalate plasticizer market, DOP demand has fallen significantly since 1980. Where in 1984 it accounted for 25 percent of the total phthalate plasticizer market, and was projected by some analyst to move to 30 percent by 1988, it currently makes up only 20 percent of the total, two producers estimate. Apparently end-users have been turning to linear plasti-

PRICES TRENDLINES

WEEK ENDING SEPT. 26, 1986

CHANGES/UP

TIO, up 2-4c. per lb. PVC up 2c. per lb.

CHANGES/DOWN COATINGS INDEX

The Coatings & Plastics Index reflects the prices of 13 representative materials n this sector and the quantity of each

produced in 1985. Sept. 26, 1986 . 306.4 Sept. 19, 1986 306.4 306.4 Sept. 27, 1985

Chemical Prices Start on Page 32

cizers such as Monsanto's 7-11 and 6-10 (and equivalent lines produced by other firms), as well as DIDP and DINP, both of which show better resistance to extremes of temperature, lower volatility and better electrical

Producers project 5 percent growth in demand for linear phthalate plasticizers. Within the smaller adipate plasticizer

market, use of DOA, the highest volume product, has also been controversial. Producers say the F.D.A. has questioned use of this plasticizer in plastic vegetable wrap. Al-hough producers say that this has not yet had any significant effect on demand, and DOA continues to be used, CMA, in conjunction with FDA and EPA, is expected to start ex-tensive testing of the plasticizer by the end of

Overcapacity has been a problem in the phthalate plasticizer market, as incremental increases are easily and inexpensively made. While nameplate capacity is currently around 2.09 billion pounds, effective capacity is between 1.7 and 1.8 billion pounds; capacity utilization estimates are about 75 percent of effective total. Plasticizer capacity is not a fundamental market variable, however, producers explain; oxalcohol is the fundanental determinant.

Demand for phthalate plasticizers is expected to reach between 1.2 billion and 1.4 billion pounds this year. One producer pin-points a figure to reach 1.38 billion this year, expected to be "one of the lowest demand years since 1980." He projects that demand will slowly begin to rise next year, with the market size reaching 1.78 billion pounds in

PRIME PIGMENTS

CARBON BLACK — Producers report that selling prices for carbon black remain at second quarter levels, with individual commodily grades selling for between 21.75c. per

pound and 24c. per pound.

Carbon black tabs fell 2.75c. per pound between March and July, in response to falling carbon black oil costs; producers of

failing carbon black oil costs; producers of the pigment lowered selling prices an additional 1c. per pound effective July 24.

Carbon black oil prices have begun to edge upward, however, producers report. So far, they have moved from their July low of \$9.50 per barrel to \$11 per barrel; and fourth quarter price increases are expected to be announced by the end of the notific.

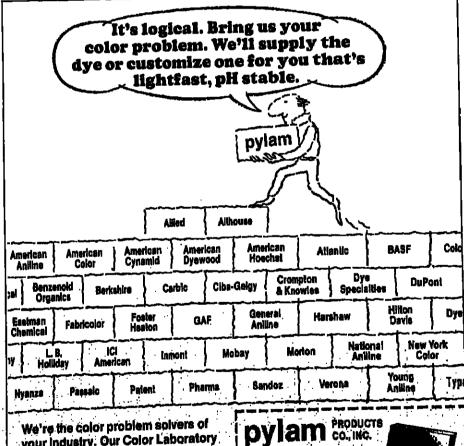
Producers of Carbon black have not an Cantilude of Page 45.

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September 20: 1466 CHUMICAL MARKSTING RISPORTER

CHEMICAL PRICES

WEEK ENDING SEPT 26, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor range of prices over the week. Price ranges may represent quotations o different suppliers as well as differences in quantity, quality and location. Al matters under this heading are fully covered by copyright.

An index of weekly chemical market reports is on the back cover.

			Alumina, activated, gran., 100-lb. bg	 IS	
A			40,000 lb. min. c.i., works.t	on 821.00	-
<i>1</i> 1			calcined, bulk, same basis t 100-lb, bgs., same basis t	on 364.00 on 380.00	-
			hydrated, white, bulk, same t	M-	_
			sis	on 190.00	-
			100-lb. bgs., same basis t Aluminum acatate, basio, dms., f.c		-
Ables siberica oil, cns	15.00	-	works	b. 3.25	_
Aceleklehyde, 99%, tanks, frt. alid. lb. Prices Ic. higher in West.	.37	-	J Aluminum chloride, arrhyd., soln., 50	0-	
Aceteminophen (see N-Acety)-p-aminophen	henol)		600 lb. dris., č.l., t.l., work		
Acetanilide, tech, flaked, bgs, t.l., f.o.b.	-		frt. equaldbulk, same basis	b53 b48	-
worksib. Acelic acid, tech., tanks, civd. Eib.	1.29	-	semi-bulk bins, same basis	b52	-
Acetic anhydride, lanks, divd. E ib.	.25 .431⁄z	-	Aluminum chloride, comi., som, 3:	2°	
Acetic anhyddde orices 1c. higher in W	est.	_	tanks, works 100 lb		-
Acetoacetarifide, dms., t.l., dkvd lb. Acetoacet-o-aniaidide, dms., t.l.,	1.29	-	non-ret, dms., same basis 100 b	9 20.00	-
Clud Ba	2.70	_	Aluminum formate, dibasic, lig. 8	%	
Acetoscel-o-chloroanlide, dms., t.i.,		_	Aluminum hydrate (see Atumina, hydr	b55	-
divdib. Aceleacet-o-toluidide, dms., t.i.,	2.85	-	Afuminum hydroxide, dried, get, N	E.	
CILIAGE B.	1.58	_	75-Ib. dms., c.l., t.l., works. i	b. 2.75	3.50
Acetoacet-m-xylidide, dms., t.l.,	1.00	_	Aluminum metal, 991/2% or more, 50-li		
Civo	3.33	-	pigs., 30,000-lb. tots, fr	b. 76	_
Acetone, tanks, clvd. E. Ib. divd. Zone 2 (Call.) . Ib.	.25 .27	-	Aluminum oxide amorphous (see Alu	Mina, calcine	d).
divd. Zone 3 (W. of Rockles exclud-	-61	-	i Aluminum paste, leafing grade	θ,	•
ing Calif.)h.	.27	-	std. lining, 2,400 lb. tota	B, b. 1.40	
Acetonitrie, tanks, irt. alid ib. Acetopheneticin (see Phenecetin).	.53	.541/2	t ining, extra-fine, same basis 1	b. 1.99	2.14
Acetopnenone, tech., lanks, f.o.b.			Aluminum phenoisulforate, purif., 10	D-	
WORKS	.76	.65	kilo dms., t.i	lo 6.46	-
perfume grade, extra, cns lb. N-Acetyl-p-aminophenol, c.l., t.l.	2.15	-	1 Name 2.400 to lote duet 11	h 317	_
WORKS	5.9 5	6.64)	4.04	-
Acetylene black, imp., 50% com-	0.20	0.04	Aluminum stearals, bgs., c.i	h. 1 <i>9</i> 5	1.37
pressed, 12½-lb. bgs. c.i., Ll. irt. extrab.	00		I DOB., C.I., Works, frt. egueki		
100%, 25-lb. bgs., same ba-	.98	-	Feet and Gr	117	
	.951/2	_	Coaststo	n 20500	-
Acetylene tetrabromide, tanks, f.o.b. works. b.			liq., tanks, N.E. same basis to	n 220.80 n 145.00	-
Acetylanlicylic acid, USP (see Aspirin). Acetylanlicylic acid, USP (see Aspirin).	.97	-	i iron-1188, dry, bas., c.i. sam	18	_
Acetyltributyl citrate, butk, 1.o.b.			basis	n 200 00	
Acetyltriethyl citrate, bulk, f.c.b.	1.28	-	Atuminum sulfate, USP, gran., dms. II	n 225.00	265.00 .337
works	2.08	_] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	()	.001
ACTOIGHT, LECTS., tanks, works IN	.62	_	ibs., f.o.b. works	b. 2.12	-
Acrylamide, solid, Ll. worksib, soln., 100% basis tanks, worksib.	1.00	_	p-Aminobenzoic acid, 1,000 kitos	b. 1.88 or	-
ACTYLIC SCIO, GISCISI, 180., tanks.	.74	.77	I More, dms., f.o.b. works ki	lo 980	10.10
awab.	.67	-	2-Amino-4-chiorophenol dry and gro 14,000 lbs. or more, frt. stid. i	h E 70	_
tech., tanks, fri. alid lb. Acrylonlinie, tanks, works lb.	.80 .39%	.45V2	AMINOSITY STREET, AMINOSITY ST	rt.	-
ACTYPORIUME-DUTACIONE-SUVERIR TRAIN	.0072	.4012	collect. N-Aminoethyl piperazine, tanks, f.o.t	ก 1 จจบ	2 -
high-impact, nat., t.i., dms., divd	4 00	4 40	ITT. COHECT	h 10-5	_
medium-impact, nat, same basis ib	1.09 1.05	1.12 1.08	2-Amino-2-ethyl-1,3-propanadi	ol .	
low impact, nat., same basis lb. Adipic acid, resin grade, bulk, hopper	.98	1.01	dms., Ll. f.o.b. works l	b. 1.82	-
CBPS. Trt. equiples	.57	-	والمستواسية ببيناها والمستقلة		
bgs., i.i., c.i. frt. equald lb. Agar USP, powd., 60 to 100 mesh.	.59	-	} 		
dmsh	9.50	9.85			
A1003101, 5VII, C-8 (G.C-1D, tanks, I.o.b.		4.00			
Works	.38	-			
C-14 to C-15, tanks, dvdb.	-57 .57	.59			
C-18 to C-18, tanke divel	.80	-			. .
Aldehyde, C-6, dms lb. C-7, dms lb.	4.10	5.70	THE TERMINOLOG	VOE TH	E OUR
C-8, dms	1.95 4.30	6.30	· ····································	יון חעב	
C-10 dates	4.30	5.35	a/aipha	C./Contigrad	.
Algin (see Socium alginate.) Alkeli blue, dry, flushed, 110-lb. dms.			I contributed '	bys./carboy	70 70
giva	3.72	3.83	AMP/American moltime	2.0./Cubio ce	numeters
Alkali blue prices 1c. higher W. of	0.72	0.00	point '	CD/complete	dy den-
Rockies, Alispice Guatemalan / Honduran,			anhyd./anhydrous	atured : i.i./cost ins	urance
bgsb.	.87	_	Official Agricultural	freight	
JUNTERCENT, COS	1.05	_		c.i./carload	
Alyl alcohol, lanks, f.o.b., Bayport, Tex., b.			a.p.a./available phos-	cns./cans comi./comm	ercial
Avyi promice, but-kio dma. 2.000 ba.	.90	-	Private Septem	CONC./CONCE	ntrated
Of More, works	5.50	-		cp/chemical cps./centipo	ly pure
Alylicaproate, 25-lb. cns. b. Alylichloride, tanks, f.o.b. works. b.	3.90 .65	4.50		ciyat./cryste	
Allyl isothiocyanate, bots b.	5.40	6.90	I Materiale	ca./cases	_
Almond oil Britt hiller/see Recyclyloba	de.)		11	ctns./carton cyls./cylinde	
Almond oil, nat. bitter, NF 1.1.p.a. bots	3.60	3.60	b/bets	-14-2	
sweetb.	1.24	3.60 1.50	Be/Baume	d-/dextro	
Alce, Cape, ca b.	2.00	_	bbte./barreis	dbi./double	
powd cs	2.25 2.60	2.75	b.g./beta-gamma bgs./bags	denat/dena	tured
powd., kgs lb.	3.00	-	[] mm/males	destdist./d tively dist	resurus- Med
Afoln, N.F., clms	6.00	6.70	bots./bottlen	di/dextro-la	eyo
Alum, ammonium, tech. gran., bgs., c i , f.i., works 100 fb.	35.00	_		clist./clistine clistr./distrib	nqos d ,
FCC powd., fiber dms., works 100ths.	55.00	-	Cof Hime	distr./distrib divd./distive	red
Alum, potassium, tech, oran, bos., c.l.,			D.r./Downg range	dms./drume	11, 1 11
I.I., works 100 bs.	35.00	-	bxs./boxes	dom./dome:	POC.

T,

edi	Ammoniac sal, galvanizing grade, bgs.,	-O137.	
te	c.l., f.o.b. works 100lbs Ammoniac sal. white (see Ammonium c	28.60	
าธ	Ammonium biborate, gran., dms., c.i.	ingride com	
	workslb. Ammorlum biborete powder 15c. per	.90 In higher	-
a	Ammonium bicarbonate, 300-lb. flb.		
Of	dms.,c.l., works 100 lbs. bgs.,c.l 100 lbs.	26.00	-
XII	Ammonium bichromate, photo-litho	25.00	-
	grade, gran. 100-lb. dms., l.t.l.	5.60	
- i	workslb. Ammonium bifluoride, bgs., t.l.,	2.00	-
	works	.70	-
	I OMS., C.J., t.J., f.O.D. works . Ib.	1.31	_
	Ammonium chloride, white, tech.,		
	fine gran., bgs., c.l., works100lbs.	18.00	-
-	USP gran., dma	.40	.53
-	Ammonium citrate, dibasic, 250-lb. dms. i.o.b. workslb.	2.79	_
_	Ammonium dimolybdate, approx.		
-	85%, 24,000 lbs. or more to Ammonium fluoborate, tech., dms.	5.48	-
-	c.i., Li., works, frt. equald lb.	1.79	_
-	Ammonium heptamolybdate, cryst.,		
	dms., 24,000 lbs. f.o.b. workslb.	5.57	-
-	Ammonium lauryi suifate, tanks, f.o.b.	-	
-	worksib. Ammonium lignin, sulfonate, bulk,	.29	.32
-	f.o.b. Hogulam, Ore ton Ammonium nitrate, dom., fertilizer	72.00	-
-	grade, 33.5% N, bulk, S.E.		
-	divdion	130.00	135.00
_	Ammonium oxalete, tech., fine. gran. 300-b. dms., t.l., f.o.b.		
•	I WORKS Ih	1.42	1.68
E0.	Ammonium pentaborate gran. bgs., c.l., works	76	
50	Ammonium pentaborate powder 20c.	.75	-
	per ib. higher. Ammonium persulfate, 225-ib. dms.		
•	24,000 lbs. or more, f.o.b.		
	worksib	.68	-
	55-lb. bgs., same basis fb. Ammonium phosphate (see Di- and m	.56 <i>1/</i> 2 nommeonor	lum phos-
14	Dra(es).		-an phos
	Ammonium silicofluoride, dms. c.l., t.l., worksib.	.30%	_
	Ammonium sulfate, ig. gran., bulk, c.l.,		
:	workston std., comi., bulk, f.o.b. works ton	80.00 80.00	90.00 70.00
37	1801., 198., Cl., t.l., Works ton	108.00	120.00
	Ammonium sulfide, liq., 40-44% tanks, 100% basis, frt. equaldton.	460.00	
	Ammonium suffocyanide, tech. (see Amy	nonium thic	cyanate).
:	Ammonium thiocyanate, tech., cryst., bgs., c.l., works ib.		•
	ech 30 %, tanks, ift.	1.02	-
	equald	.93	-
00	0076, 020KS, 1.0.D. Works lb.	.13	_
	Ammonium zirconyl carbonate, soln., bulk	70	
	Avriyi acetete, primery mixed isomers.	.72	-
•	LENKS, CIVO.	.57	-
10	Arriyi alcohot, primary mixed isomers, tanks, irt. alid ib.	.461/2	
_	PARTIYI CITINUMIC ALGENYCIE, dana Ib	2.35	2.50
	p-tert-Amylohenol, bulk, works lb Amyris oil, dms lb.	.91 11.50	1.03 12.25
•	Ariethore, tech., dats kilo	10.20	-
-	USP, dms	3.65 700.00	4.60
_	Armine, tanks, I.o.b.	.33	.351/2
	Anise oil, dmskilo	11.75	-
			ونحجوها

المراجع والمراجع والم	
2-Amino-2-methyl-1-propanol, 95%.	Anise seed, Egypi, bgsib. 63
dms., c.l., t.l., f.o.b. works . lb	Spanish, bgsb. 100
tanks, f.o.b. works	Anicic attaburto cas store
o-Aminophenol, dras., f.o.b. Charlotte, N.C	c-Anisiding, Imp., days , divd , ib 2 27 5.40
p-Aminophenoi, t.l. dms., f.o.b.	p-Anisidine, imp., cast solid, dms.
Raleigh, N.C kilo 7.15 -	works
p-Aminosalicÿlic acid, USP, 50-kilo dms.,t.lkilo 18.50 -	Anthraniic acid, putif., 99% min., dnis
Ammonia, anhyd., fertilizer, wholesale.	t.l., irt. aild lb. 1.70 Antimony fluoborate, liq. conc., 175-lb.
tanks, civd. Midwest termi- nals	dms.t.l.works
nats	Antimony metal, bulk c.l. mines in the
aqueous, 29.4% NH ₃ , anhyd. basis,	Anumony oxide, nigh-tint, bgs., c.l., fd.
tanks, frt. equald. E. of Rock- les ton 260.00 315.00	Antimony trichloride, anhyd., solid,
Ammoniacal liquor (see Ammonia, aqueous).	I dms.tl.works to see
Ammoniac sal, galvanizing grade, bgs.,	Apomorphine hydrochloride, NF, bots
c.i., f.o.b. works 100lbs 28.60 - Ammoniac sal. white (see Ammonium chloride comt.).	I Apricol Kernel Oil, drns. Ib a ne
Ammonium biborate, gran., dms., c.i.	Arabic gum, powd hbls b. 1.85 215 spray dried b. 2.00 255
works	USP grade is a second
Ammonium biborete powder 15c. per lb. higher, Ammonium bicarbonate, 300-ib. filb.	Aromatic petrolaum solvants (see Solvent parties
dms.,c.i., works 100 lbs. 28.00 -	potroloum, aramatic). Arsonic, crude (see Arsonious trioxide)
bgs., c.l	I Alvid, red (see Napihol, grylid red)
Ammonium bichromate, photo-litho grade, gran. 100-ib. dms., l.t.l.	Arsonious trioxido, 99%, bulk, c.l.,
workslb. 2.00 -	f.o b warehouse ib42 .45 Asbestine (see Talc, fibrous)
Ammonium bifluoride, bgs., t.l.,	Ascorbic acid, USP, 100 kilos.
works	dlvdkilo. 9.00 10.50 Ash, black (see Barium sulfide)
dms., c.l., t.l., f.o.b. works . lb. 1.31 -	Asphalt gilsonite. (see Gilsonite).
Ammonium chloride, white, tech.,	Asphail potroloum culback, tanks, E
fine gran., bgs., c.l., works100lbs. 18.00 -	Constgai .86 - emuision, tanks, tankwagons, E.
USP, gran., dma	I C0851 nal 60
Ammonium citrate, dibasic, 250-lb. dms. i.o.b. workslb. 2.79 -	steam-rolined, 40-300 penotration.
dms.t.o.b. works	tanks, tankwagonton 170.00 - steep roofing grade, bulk tankwag-
85%, 24,000 lbs. or more . 1b 5.48 -	OD
Ammonium fluoborate, tech., dms., c.l., Ll., works, frt. equald., ib. 1.79 —	Aspirin, USP, cryst., powd., 250- b.dms., cl., lo.b b. 1,95
Ammonium heptamolybdate, cryst.,	10% starch granulation, white, 250-
dms., 24,000 lbs. f.o.b.	Ib. dm, c.l., o.b b. 1 97 -
works	16% starch granutation, white, same basis
workslb29 32	Freight equald shipt, identical quantity over standard motive
Ammonium lignin, sulfonate, bulk,	from N.Y., Phila., Midland, Mich., Chicago and St. Louis.
f.o.b. Hoquiam, Ore ton 72.00 – Ammonium nitrate, dom., fertilizer	Alropine sulfate, USP, bots
grade, 33.5% N, bulk, S.E.	Avocado cil. dmsb. 4.00 4.50
arvo	Azelaic acid, tech., 50-lb, bgs., t.t., c1, divdb. 1.23 -
Ammonium oxalate, tech., fine. gran. 300-b. dms., t.l., f.o.b.	Azo orange, bbis divd b. 4.60 -
l Works Ib 1.49 1.60	Azo yellow, 10 G, bgs , divd. E. of
Ammonium pentaborate gran. bgs.,	Rockios
G.I., worksib75 – Ammonum pentaborate powder 20c.	sis lb 2.45 -
per it). higher.	
Ammonium persulfate, 225-lb. dms, 24,000 lbs. or more, f.o.b.	
I WORKS	
55-lb, bos., same basis	
Ammonium phosphate (see Di- and monoammonium phosphates).	
Ammonium silicofluoride, dms. c.l., t.l.,	
works	Bacitracin, USP, non-storile, one bliken
Ammonium sulfate, ig. gran., bulk, c.l., workston 80.00 90.00	units or more million units 6.30 8.80
std., coml., bulk, f.o.b. works ton 60.00 70.00	Barbital, NF, 50-kilo dms., divd , kilo 22.50 -
lech., bgs., cl., t.l., works ton 108.00 120.00 Ammonium suifide, iiq., 40-44% tanks,	Barbital-sodium, NF, 50-kilo dms. dvdkilo 23.00 -
1 100% basis, frt. equald, _ton, _460 00	Barite, dry-grd , Southern, off-color,
Ammonium suffocyanide, tech. (see Ammonium thiocyanate)	coarse, bgs., c.l., l.o.b. mines lb .09 .11 water-grd., white, bgs., c.l.
Ammonium thiocyanate, tech., cryst., bgs.,cl., works	f.o.b. works
tech soln., 50%, tanks, frt.	unbloached, extra-fine, pigment
l equald	grade, c.t., f.o.b. works ton 180.00 - Barium carbonate, precip., bulk, c.l.,
Ammonium thiosulfate, photographic, 60%, tanks, f.o.b. works ib 13	works, fri. equald b25 -
Ammonium zirconyl carbonata, som.	bgs., same basis b
Dulk	photo grado, bgs., same basis ton 510.00 - Barium chiorato, 100-lb. dms., 1-10
Amyl acetate, primary mixed isomers, tanks, divd	dm. lots, works
Arryl alcohol, primary mixed isomers.	Barlum chlorido, tech., cryst., bgs., c.t., works ton 470.00
tanks, irt. alid	anhyd drums c.l., same basis ton 590.00
I P-tert-Amylohenol, bulk, works Ib 01 4 09	Barlum chloride, purif., cyrst. 400-lb.
I AMVOS OIL OMS Ib. 41 EO. 40 OF	dms., worksto. 3.76 Barium monohydrate, 55-lb. bgs., c l.,
Anethole, tech., dms kilo 10.20	t.i. f.o.b. works 100 lbs. 46.00 -
Andelica root oil hote kite 200 og	ociahydrato, cryst., bgs., same
Anline, tanks, I.o.b	Barlum nitrato, 100-lb, bos., U.,
Anise oil, dms	works

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

CD/completely den atured c.l.l./cost insurance freight c.l./carload cns./cens comi./commercial conc./concentrate cp/chemically pure cps./centipoises cryst./crystalline kgs./kege i-/leavo ib./pound i.c.i../leas carload i.t.i./reas truckload iiq./iiquid F./Fahrenheit
1.8.s./free alongside
ferment./fermentation
1.1.s./free fatty acid
1.1.c./free from chlorine
1.1.p.s./free from prussic acid
fib./fiber hb./fiber point point prod./producer pt./point prod./producer pt./point pt./point pt./point put./put/edited pt./point pt./poin

_	m oxide, grd dms. c	l. 19 31 3	or.	_ 1	Borax, toch., gran., decahydrata, 9917% bgs., c.l., works ton 237.
2	CAND LANGE	ns 30 t		-	twik, cl., works ton 192 tech , pontahydrate, gran 99%,
E contra	MOSTOXICIE. FOU TO THE THIRD	D.	30	-	basic I warks ton 265 bulk, cl., works ton 220
8971	en siesisie. uurk, * * * * * *	ih 1 i Diametra	05 N	-	Borax, NF (See Sodium borate). Boric acid, tech., gran., 99.9%, bgs.,
gart.	marifate, tech (see barres tare)	SiS			c.i., works ton 614
•	O'808, DONO.	lb	58\>	-	Boron trichleride, CP, 1,800-lb. cyls., works
Bri	10,000 kao kota in sufide (black ash), dms , d works Legypian			- 85	Boron Influoride, 60-lb cyls (Ll., f.o.b. works
			75 88	90	bulk, samo basis
Bas	Iol Comores	lb 90 lb 45	00	_ '0 75	dms., t.1 , f.o.b., works lb. 2 phenolate, 500-lb. dms., t.1., same
	myacid. 11. 10 U., WOLKS		QO 7	073	basisRo
1	grai-88% Anjoi, Common	ton 229		-	Bromine, dins., t.l., works lb. faulk, 45,000-lb. min., works lb
	ol, NF, 55-60%, ams	, Ro 2	50 70	15 00 3 00	punt , t I., divd
Be	19W8X, FB10., Diencinos tin	1b 3	10	3 20	1c - por-lb. higher. Bulk t.t. prices 1 higher for 30,000-lb. min. and 40
1	white, sights, 100-lb, ctns	10 3	05 1.00	3 10 3 10	higher for 15,000-lb. min. Bromochloreniethane, dms., c.l., f.o.b.
١.	yelow, slebs, 100-10, Ciris	0 b.	95	3 05	Midland
	works nzsidenyde, NF, dms . goh, dms . C l., L l		3 50 1 25	-	1.4-Butanediol, tanks, f.o.b., Irt. equald
	ech dans Cl., I.I., Proes are 4c. per la higher Wes	. ID. st of	73	.63	dms., same basis
	the Rockles.	98, 1 O b			n-Butyl acetate, syn., tanks, irt. alid.lb. n-Butyl acrylate, tanks, irt. alid. E ib.
"	Baton Rouge La Baytown, Tax	gai gai	85 .83	-	n-Bulyl alcohol, syn., ferment, tanks. frt alkl
	Beaumont, Tex	ប៊ីថា	.85 .85	-	sec-Butyl alcohol, syn., tanks, divd. b. tert-Butyl alcohol, syn., tanks, divd.
	Chicago district	ciai	.85 .85	-	E
1	Chocolate Bayou, Tex Clarton, Pa Corpus Christi, Tex	gal cal	85 85	-	Butyl benzyl phthalate, tanks, frt.
	Deer Park, Tex. Houston district, spot	. gai	85 81	 82	Butyl chloride, tanks, worksib. Butyl cyclohexyl phthalate, tanks,
	Lima, ONO	gau. Gal	85 85	-	n-Butvi ether, dms., c.l., t.l., works., lb.
Į B	mzene pexachloride, 99° o gamn wildine orange, powd. bys. div	ng isomer	(50e Line 4.90	dane). 8 70	Butyl isodecyl phthelate, tanks.
	iq , containers, divd. endine yellow, AAA, bgs , divd	KD	3 36 5 80	3 69 6.05	n-Butylitactate, tanks, f.o b. works .io. n-Butylithium, 15% soin., 1,000-lb.
'	AAOA, bgs., dlvd. AAOT, bgs., dlvd.	. 1b	7 35 5 95	7 40 6 20	lots or more, cyls., 100% basis divd
	lezocaina USP, dms . 1.000 kg	1015.	10 00	11 50	tanks, 3,000-lb. min., 100% basis,
1 9	Sezokacid, tech., bgs , c.l , t l	ΙĎ	12 50	-	Butyl methaciylate, tanks, irt.
1	works USPcryst., dms., ton lots same	. Ib	55	58	Butyl octyl phthalaie, tanks, civd.
١,	sta krzojngum, Sumatra, cs	lb lb	1 73 1 80	1 75	lanks
	ierzophenone, N.F. 1.000 Ib		3 50	3 60	Butol chthalate (see Dibulyl phthalate)
1	more, I.a b HF, 1,000 kilos or more, I.a.b tech, 1,000 kilos or mora	, kg	7.45	-	Butyl stearate cosmetic, dms // diffs or more lb.
Ì	works. 22.Benzothiazyi disuliida (soo	kas	4 35	- azal disul-	Butyl stearate tech . L I 1b.
- 1	fide).		7,10,12011		Butylaining (see Mono-, Ol- and Tributylar
1	Benzotriazolo, figike, dinis 1,00 ormore, Loib, works	th	6 10	-	tert Butylamino, dms., c.l., t l., f.o.b. works
	powd , dms , 1,000 lbs or same basis .	R.	6 20	-	tanks same basis
-	photo-grade, dms., 1,000 t more, samo basis.	II)	9 90		Butylated hydroxytoluene, food, feed
1	Genzotrichloride, refd , dinns 1. equald	۱tɔ	87 80		grades, cl. tl. bgs , rivd. lb. tech. bgs , cl., tl., dvd lb.
	tanks, frt. equald	(4 lb	57	59 75	Butyraklehyda, tanks, divd
	lanks, frt. equald Benzoyl peroxide, regular	gran .	741.7	75	Butwee other (Spo Ethyl butyrate)
	works, in equald.	- ILə	2 35	6.98	(Butyrolactono, lanks, f.o b. ptantlb. n-Butyronitrio, dins., c.l., divdlb.
	paste, 50% and 55% formul drist, palls, frt. organid	ll)	171	1.95	tanks, divdb.
1	Benzylacotate, drng Benzyl alcohol, N.F. 1.I. din	19. III	1.20	2.60	
- {	lanks, same basis	115.	1.26 1.37	1 85 1 43	
	photo grade, 1.1., dms., soi sis tanks, samo basis	me ba-	1.40	-	
	was grove, th. dime some t	ontis l'b.	1 34 1.32	-	the series and 100.
	Baczylbonzoato class		1.26 1.65	2.25	Cadmium chlorido, punt. cryst., 100- lb. dms., t.l., workslb.
1	CL.LL bi oguald	L dms.,	.50		Cadmium, CP, red, dark shade, bble., 100-lb. lots, frt. alld., E. of
4	tanks, I.O.b. Benzyi cinnamalo, 25-lib. cms.	u.	8.60	9.96	Rockies
1	dma for works	10, t.l.,	2.30	-	modium shada, bbis, same basis.ib. modium-light shade, bbis., same ba- ib.
	6-ten-Butyl-m-crosol (seco blace	lb.	10.50 lyl-m-crei	BOI).	sisb. Sadmium, CP yollow, all shades, bbts., 100-lb, lots, irt. alid., E. of
	Benzyl Gronionale, cime	ID.	3.35	-	l Docklog
	Benzylding acatogo, one hot	lb.	2.90 2.95	3.25 3.25	Cadmium liuoborate, liq. conc., dms., t.i., works, frt. equaldlb. medium-light shade, bbls., same be-
-	Betahydroxynarhthologodd fo) KNO	44.00 aphthok	acid).	gio
	Biphenvi (see Diphension	egm.	5.50	-	Cadmium mercury sithopone, marcon shade, bbls., frt, sild. E. of Rockles
	h dre the purit. Crys	st., 100-	10.00	-	Cedmium metal ingola of attents, to
Ì	and oxycmoride, 100-li	p. dmg.,	17.20	-	Cadmium nitrate, puril., flake 400-b. dms., c.l., i.l., l.o.b. ship, pl.ib.
ł	DOWN COLUMN CAP	, waanim	15.31		Cadmium-selanide-lithopone, oranga, light shade, bbis., 400-lb. lots.
			10.60		frt. sild, E. of Rockies ib. deep shade, bids., same basis b.
1	dms. works. Bismuth subnitrate NF, powd dms. works. Bismuth subsetting	l., 200-ib. lb.	14.45	_	Cadmium-selenica introporte, for
	En 100 PARTIE DUTI	r. powa.,			light shade, DDIS., same bass.
1	Landing Landaut bo	Wa., 100-			medium agni snace, page h
	City opera grade	, nobbar		7 -	Medium shade, button basis ib
İ	Blanc (lea	e basis ib.	.7	1	shades, bbis, same basis to
	Perlidan dans	[14]	10.11	5 12.00 5 -	quantity, f.o.b. ship pt
	(IBA 62) (IBA 63)	98KJ 80		5 8.0	B Caffeiria, com., owd., 100-lb. drils., d.l.
Ì	I a Lambu, Guille,	UUD., C.J.,			K I IMP CIVIL MAINWAY PO
	Language Gentrout	alec of H	IMO (800	Defluorin	Calaminé USP dime
	Buraix, tech. anhyd. 90%.	e Çelclum bgs., c.i.	phospha	ité (Moasic)	aised Calemine, USP, gims. Calemine 08, gims. Calcinus 08, gims.
	works, built, C.L., works,	tor	647.0 602.0	0	II works
				Caldred .	好。""大声,是大眼的眼睛是眼睛的眼睛

·	a to the control of t
orax, toch., gran., decahydrate, 99\/25 bgs., c.l., works ton 237.00 -	Celcium carbide, std., generator size,
tarik, c.l., works	bulk, c.l., f.o.b., works, ton 402.00 Calcium carbonate, pulverized, 325- mesh, bgs., bulk, f.o.b.
bgs.cl.works ton 265.00 - bulk.cl.works ton 220.00 -	works
urak, NF (See Sedium berata). ond acid, tech., gran., 99.9%, bgs., c.l., workston 614.00 -	basis ton 167.00 72% eolida, same besis ton 98.00
bulk, c I, works ton 569 00 - oron trichleride, CP, 1,800-lb. cyls.,	quicklime, gran., ind., bulk, work- ston 67,00
works	Calcium carbonate, coated, bgs., c.t., worksb0742
works b 4.03 - hulk samp basis b 3.47 -	Calcium carbonate, precip., bgs., cl.,t.l ton 370.00 Calcium carbonate precip. medium,
oron trifluoride, etherate, 500-lb. dms., t.1, f.o.b., works lb. 2.35 – phenolate, 500-lb. dms., t.1., same	bgs., c.l., works ton 95.00 precip. dense. bgs., c.l., surface
basis	treated, bgs., cl., works ton 195.00 uitratine, USP, bgs
tulk, 45,000-lb. min., works lb3334½ punt , t l., divd lb75	c.l.,works
Jronne divd., prices for dms. and bulk shipped W. of Rockles, 1c - por-ib. higher. Bulk Lt. prices 1c. to 2V ₂ cper-lb. higher for 30,000-lb. min. and 4c. to 5V ₂ cper-lb.	80%, flake, bulk, c.i., works
higher for 15,000-lb. min. Bromochloronsethano, dms., c.l., I.o.b.	100-lb. bgs., c.l., same basis
Midland 1b. 1,12 - Butadiene, tenks, f.o.b 1b	c.i., same basis ton 217.00 80-lb. bgs., c.i., same basis ton 279.00
1,4-Butanediol, tanks, f.o.b., frt. equaldb80 - dms. same basislb88 -	brining grade, 80-lb. bags ton 285.00 Calcium chlorida, tiq., 100 percent ba-
Butone-1, lanks, f.o.b. works b. 26 28 n-Butyl acelato, syn., lanks, irt. alid.lb521/2 -	sis, t.c., t.t., barge ton 99.75 45% same basis ton 118.00
n-Butyl acrylato, tanks, irt alld. E., , ib	Calcium chloride, USP, gran., 225-lb. dms.,t.l.,frt.equald,lb90 Calcium citrate, purif., 200-lb. dms.,
frt alld	10,000 lbs. or more, f.o.b. works, b. 3.82
tert-Butyl alcohol, syn., tanks, divd. Eb70 - Butyl aldehyde (see Butyraldehyde)	Calcium cyanamide, indust., anhyd. dms., works
Butyl benzyl phthalate, tanks, frf.	Calcium gluconate, USP powd t.i. lb. 1.80 Calcium hydride, lump, dms., 25-
Butyl chloride, tanks, works lb	1,000-lb. lots. workslb. 10.50 Calcium hypochlorite, 100-lb. dms
divdb74 - n-Butyl ether, dms., c.l., t.l., worksib. 1.85 - Butyl isodecyl phthelate, tanks.	truckloads ship,t. E. of Rock- ies
divd	500 kilos or more kilo 13.75 Calcium lodate, FCC dms., 1.o.b.
n-Butylithium, 15% soin., 1,000-to. lots or more, cyls., 100%	works
basis, divd	Celcium lactate, NF, powd., pentahy-
Butyl methacrylate, tanks, frt. equald	drate, dms. 24,000 ibs. or more, f.o.b. works ib. 2.00
Butyl octyl phthalale, tanks, dlvd.	NF, gran., trihydrate, same basis. ib. 2.10 special gran., dried grade, same ba- sis b. 2.80
Butyl oleale, dist., dms., c t lb	Calcium naphthenate, Itq., 4% Ca., c.I.,
Butyl phthalate (see Dibulyl phthalate) Butyl stegrato cosmetic, dms., 77 dms	d-Calcium pantotherate, USP, 100- 500-kilo lots kilo 11.50
or more lb. 91 97 tanks lb 92 - tanks lb. 60 62 Butyl stearate tech . Li 65	di-Calcium pantothenate, feed grade, f o.b. frt. alid , 250 kilos or more kilo 8.0
Links th .55 .58 Buttelantin (see Mono-,DI- and Tributtylamine).	di-Calcium pantothenate, calcium chlo- ride complex, feed grade, 180
tert-Butylamino, cms., c.i., 11., 1.0.6. works	grams per lb., f.o.b., frt. alld., 500 lbs or more lb. 2.7:
Butylated hydroxyausole, food grade,	Calcium phosphate, dibasic, feed grade, 18/2% P. bulk, c.l., t.f.
Butylated hydroxytolueno, locol, feed grades, cl. t1, bgs , rilvd. lb. 1,24 1,30	Calcium phosphale, dibasic, dihydrale, USP, bgs., c.l., t.l., works, irl.
tech . Gys . C L . L I., dlvd ID. 1.24 130	equald 100 lbs 92.5
Butyrakdohydo, tanks, divd lb	dentifice grade, same basis 60 lbs. 49.5 Calcium phosphate, monobasic.
Butyrolactono, tanks, r.o.b. pani	monohydraia, 1000 grade. bas., c.l., t.l., works, irt.
tanks, dlvd	anhyd, food grade, same ba-
	tribasic, NF precip., bgs., c.i., iit
	Calcium propionate, dms., 2,000 bs.
	Calcium allicate, hydrated, bgs., c.i., works
Cadmium chlorido, punt. cryst., 100- ib. dms., t.l., worksb. 3.73	Calomel, NF, mild powd., 100-10. dillis., ib. 8.
Cadmium, CP, red, dank snace, Lote,	Camphene chlorinated, 67-59% (see Toxaphe Gamphor, monobromated, dms., kgs
Rocklos	Camphor, syn., tech., 165-lb. dms.,
modum-light snade, obis., abit of	USP, powd., 165-lb. dms., 5,000
Cadmium, CP your, an anades, boss, 100-1	syn., refd., 1-oz. tablets, ctns. 1,000-
Cadmium Lucadra (rt. equaldlb. 2.27 -	white, drss
medium-light shede, bois., earlie de 3.22	Cenanga off, incontestan, ortis
Cadmium-mercury sthopone, marcon shade, bbis. [rt. alid. E. of Rockles	raid, pure, bgs
	60 Capric aldehyde (aldehyde C-10) dms., lb. 3.
Cadmium nitrate, punil., flake 400-b. Cadmium nitrate, punil., flake 400-b. dms., c.i., t.i., l.o.b. ship, p.lib. 2.10	Caprolactam monomar, nave, bus, ib.
Cadmium-selanide-kinopone, cuaja koht shade, bbls., 400-lb. lots. 13 hill E. at Booldes (b. 3,97 4.0	molten, tanks, same basis
deep shade, bbis., same basis b. 4.47 4.6	Caprylic acid, comi. pura tanksib.
anade, bols., same basis b. 6.27 6.3	Capalcum oli (sea Caparcum Georges)
medium eght enede, turns, see b. 6.72 5.7 68 6.37 6.4	pepper, cms. 10 NF, from African pepper, dms.
Maroon sharos below all	500,000 pungersy b. 17 1,000,000 pungersy b. 17 10 consum oil Poland dma. b. 22
SABORE IN COME ANY	Caraway seed, Outon, ogs
Caffeire, dom., USP, syn. cryst. sh-	Carbon black, lumace, test extructing
ti irt ald powd drie 470 4	pgs., o.l., works. general purpose (GPP), bulk, c.l.,
d 10,000 bs. or more b 160 Calemine USP dms. b 26,80 35,4	but chreein (HAF), high structure,
Celamus or Communication Colored Communication Colored	bilk of works lb.
Celemine, USP, Ins. Celamus of, dins. (1) works.	September 29, 1986
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	「大大」という。 「「大大」 「大大」 「大大」 「大大」 「大大」 「大大」 「大大」 「大

	4.00 9 00	<u>-</u>	quicklin	eoilda, same be: ne, gran., ind., b	ulk, work-	98.00	-		DDIC	EC			
. cyla ib.	3.80	-	Calcium car	rbonate, coated,	, bgs., c.i.,	67.00 .0742	- .1350	,	PRIC	LJ			
., f.o.b. \b. lb.	4.03 3.47	<u> </u>	Calcium ce	arbonate, pred t.l.	lp., bgs.,	370.00	430.00		WEEK ENDING		1986		
10. 500-lb. lb.	2.35	_	Calcium of	ubonate precip s., c.i., works.	. međum,	95.00	140.00		urbon Black, low structur				
, same Ro	1.65	-	precip. c	dense. bgs., c. aled, bgs., c.l., v	i., surface vorks lon	195.00	-		worksbags, c.l. works	lb.	.240 .270	260 290	
ID. ID	.87 .33	.341/2	0.1.	raline. USI .,works	ton	160.00	170.00		ntermediate-auper- (ISAF)	abrasion b.	.25 .28	_	
	.75 ped W. of R 1c. to 2Vac.		80	toride, conc., reg 3%, flake, b	ulk, c.l.,	153.00	_		bgs.,cl. works super-abrasion (SAF). works	, bulk, c.l.,	.20 .31	-	
	4c. to 51/2c.		100	orks	c.i., same	196.00	_		bgs., c.l., workssemi-reinfording (SRF)	lb.	.4050	-	
.d.o.1, .di	1.12	-	anhyd.,1	94-97%, flake o: I., same basis	rpeliet, bulk,	217.00	_		works bgs., c.l., works	lb. lb.	.210 .240	=	
lb.	.26	.261/2	80-lb.	bgs., c.l., same grade, 80-lb. bag	basis ton	279.00	-	ľ	arbon black, thermal, m c.l., works	lb.	.30 .32	.30½ 34½	
lb.	.80 .88 .26	- - .28	Calcium c	hloride, tiq., 100 is, t.c., t.t., barge	percent ba-	99.75	_	٥	bulk, c.l. works arbon black oil, barge, f. fineries	o b. Gulf re-	10.50	12.50	
lb. .alid.lb. .Elb.	.527z .69	-	45% sa. Calcium d	me basis dikiride, USP, g	ton yan., 225-lb.		-	١,	Lo.b. W. coast refinede Carbon disulfide, L.C., f.o.t	9 bbls.	10.50 420.00	12.50	
, tanks.	.34	_	Calcium (kms., t.l., frt. equ citrate, purif., 2	:00-lb. dms.,	.90	-	10	Carbon teirachioride, CP, dms., c.l., frt. alid	, consumers, Ib.	.36	-	
divd. ib. s, divd.	.365	-	V	0,000 lbs. or vorks	lb.		-	1	tech., dms., c.l., t.l., frt. tank transport (min.	4,000 gals.)	.31 .24	-	
lehyde)	.70	-	C	cyenamide, ind ims., works	ton	400.00	450.00	ر (frt. alld Carboxymethyl ceilulose Cardamom oll, NF, bots	(saa CMC).		100.00	
nks, Irt. ID.	.59		Calcium	duconate, USP (hydride, lump	dms., 25		13.25	- 10	Cardamoms, decort, Gua green, Guatemaish,	rtemalan Ib.	3.00 6.25	9.75	
tanks,	.99 .74	1.00	Calcium	1,000-lb. lots. wi hypochlorite, 1	100-lb. dms		13.20	' ·	Carmine, No. 40, NF, but or more, divd	k, 100-lb. lols		140.00	
ib. orks ib. tanks.	1.85	=	1 1	truckloads ship, es	100 lba	. 92.40	-		Camauba wax, Pamahyi tow bostor.ki	ba, No. 1, yel-	1.95	2.05	
orks .lb.	.35 1.58	-		hypophosphile 500 kilos or mon iodate, FCC	8klik	13.75	14.50	0	Ceara, No. 1, yello	w, bgs., ton	1.76	1.90	
100%			1	worksiodide, 50-kild		. 5.60			North Country, No. 2, ton lols. Camauba wax, North C	10.	1.55	1.65	
lb. % basis,	15.45	-	Celcium	works	k# wd., pentahy	o 23.6 5 /-	25.6	5	centifuged, bg: North Country, No. 3	s., ton lots . Ib , relined, bas.	1.10	-	
lb. iks, frt.	14.75 .88	-		drate, dms., 2 more, f.o.b. wo	4,000 lbs. o	o. 2.00			toniota Powdered camauba v	rax, 20 to 100	1 30	1.45	
ks, divid b.	.40	.42	l NF.ar	an., trihydrate, t algran., dried gre	ame basis. K de, same ba). 2.10	_	\	mesh, 20c. per b-Carotena, in vegetable	ito, higher. soll, semi-solid			
ib.	.60	.82 .75	1	sis	a., 4% Ca., c.). 2.64 .			per gram., 33 li	00,000 A units os. or morelb.	32.75	-	
ks lb. hthalate)	.70	-		I.o.b. plant, E. c um pantothena	of Rockles. II te. USP, 10	b84 D-		1		vegetable oil is per gram., 33		_	
.,77 dms lb. lb	91 92	97	1	. 500-kilo lots um pantothensi	io, leed grad	D 11.5	u 12.	, v	b-Carotene, dry, beads A units per gra	i, 10% , 167.000 µn 50 lb cnslb	. 26.85	-	
1b.	60 55	62 .58		f o.b. frt. alld . more	k	0.8 oh	10 B	50	d-Carvone 25-1b dms		. 7.00	7.25	
nd Tributyla t I., f.o.b.			di-Calci	ride complex. I grams per lb.,	ieed grade. 1	60			Cascara segrada bark Casein, imp., acki-pr	ecip., grd., 30). 1.00 -	-	
. lb.	1.31 1 17	-	Colobu	500 lbs or more m phosphate,	θ	ID. 2.7	'5 -	•	mesh, Austr Same basis, C	ili	1.45	-	
od gradelb.	8 80	8.85	-	grade, 18/2%	P. bulk, c.i., t	on 228 (00 -	-		ist., same bask It il. wt., dms., fr	1.365	· -	
ood, feed , divd., ib. , ib.	1.24 1.24	1 30 1 30	Calcium	n phosphale, dit USP, bos., c.l	asıc, dinydra . t.i , works, i	le. Iri.			and 100% ba	13/5 II	3.70 3. 95	1 05	
llvd . ib	72 .29\1	.38	anhy	equald	100 II 1886 100 II	os. 02.3	75 ·	-	"B" bgs	Braz tanks. II	o72 o. 31	.78 .31'7	,
rate)	.44%	-	dent dent	ifice grade, sam im inhosphate	e dasisou i 6 monodas	16. 40.		-	USP 5-9 dms		b78	=	
otanilb. vdlb.	1.20 .93 .54	-		monohydrate bgs., c.i., t. equald	1. works	irt.	50	_	blown, 5-9 dms. dehydrated, bodied dehydrated, unbodi	lanks.	D. 74	-	
lb.	.04		■ anhy	equalic yd food gra 819.	da. same I	OM-		-	Castor oil, acids deny	crateo, oms	b79	- 19 .83	
				ssic, NF precip.	. bgs., c.i. 1001	nt bs. 62.	50	-	Castor pomace, bgs.	, containerios Fla	n 154.00		
			L.	m propionate. (or more 1.0.b.	ims., 2,000 i (rt. alid	. lb.	50	.55	Castoreum, nat., ons.		D. 11.00 D. 11.00		
				ım sificate, hyd	rated, ogs	G.I., . Ib .	.07	-	Catechol, CP, 45-kl	10 ams., 30-2.	ig. 7.93		
гуві., 100-			Calciu Calorr	m sliicate, paint nel, NF, mild pow	M., 100-10-4-		.50	_	tech., bgs., t.l., san Caustic potash (see F Caustic soda (see So	'Olasn, causiici			
nede, bule. alid., E. of	1		Camp	f.o.b. works hene chlorinaled shor, monobre	1. 67-69%(86	е Тохарк	ene).		Cedarleaf of, dms	s. dms. cns.	0. 3.00	400	
	. 11.33	16.35 12.06	_	kgstech	. 165-lb. dr	. II		3.70	Coded prime dris		(b. 5 25		
di. siesd em sd emas	. 10.69	15.20	-	5,000 lbs. or i ISP. nowd., 165	moreδ, j-lig. dma., δ,	000	.80 28	-	Cedryl acetate, 015t.,	ams	б. 44		
ales, bbis.), 1 0.26 'I	14.50		Ro. lots or mor refd., 1-oz. tab	re. Xats, cins. 1,0	ioo	.36 .50	_	Cellery seed oil	owd., bgs., l	і. іb. 130		
alid., E. o). 8.10	7.07		ib. loss of moi	76	,ib. 2	.50 .50	-	Cellulose acetale t	content, bos., i	đ., Ll.,		
conc., dms. uskilb s., sams bæ), 2.27 -	-	Sp6	ite, dms. c. grav., 1.070, nga oli, indoresi	an.dris	. No. 2 kilo 17	.00	2.25 	divd. E	bas, divd.E.	b. 1.51		
Ol), 3.22 N	_	Cand	OF WAX, CRUCH	Dgs.	ib. 2	.90 .10	- -	50% butryl content, 55% butryl content, Cellulose gum, pure	nas. anti.c	ль. 1.0		
. elid. E. 0); 5. 4.60	-	Capri	c acid, comi, pur	O, CHIID.	.ib.	.60 .60	.65 .65	1 24.00KHD.K), high vis., by ols or more wor well, Va	ra, _	0 1.70	D
r eticke, lo	n p 1.20	1.6	Cabu	C Bidenycie (anne	IIYUB O- IO) O	ib. 3	.95	6.35	std., low or medic	um visbgs Dewell Vs	c.l. .tb. 1.5	o 1.90	
Rake 400-K b. ship, pi.it	o. o. 2.10			ncaroni Nobia di a	61 '1800-6' 1783. 10 DOKTE	.ib.	.67 .85	-	Certum concentrate	CeO ₂ , 50 los., 30% CeO ₂ , dr	.B. 1.3 ns.,	5 -	
one, orange 400-lb. lots kies	B	4.00	1 0000	iten, tanks, sam ył alcohol sec. 1.o.b. works.	9 08516 92-99% (a)	nks,	.35	. -	Works	works	. ib. 4.2		_
e basis I ine, red, dar	b. 4.*/ k	4.60 6.60	Capr	r.o.p. works. yijc acid, comi. p	ure tenks	.lb.	.73%	-	Cerium oxide, opuc	er Grees, ogs.,	. ib. 1.8	RAW 1.2	7 .
te básis basis	b. 5.27	5.30	Capa	icum oli (588 C& icum olennasin.	NF. from d	. 100		<i>.</i>	Cetylalcohol, NF, CR Chalk (see Calcium Chambonile Rossers	carbonate). Humaarian es	b. 4.3	25 4,5	Ю .
ls., same bi	0 0.15			papper, oms	nenner dine). -		(- 	Roman, CS		.lb, 4.1	70 3.0) 0
amo baals I ama basia. I na. yakow,	7.47	1 - T		500,000 pungen	ANOV	b	7.00 1	8.00 25.00	Chamomile oil, blue	, Egypuur	.Rs. 545.	80 00 –	*e*:
ne basis dros., ar	D. 2.77	1. 4.	Cara	way oil, Poland, way seed, Dutol yptien, bgs.	ome h, bge	. ib. ih		.59	Chenopodium Ol. N	ir chs.	lo. 13		
nip.pt	D		Cano	OU DISCH IN THE	D, 1001 07110	Ъ.	2125	* - .				30	
ib dris. d powd., drie	4.80	ديواڻيا. ماريون کيون		EF), buik, o.i., works	(GPP), bulk	b.	,2425	-	Chierande anhydri works Chierantes peral	fin. 40% chlo	rine,	4B	481/2
org.	4.70 1.50	4.8		has at works		. lb	.2075 .2375		50% chlorine.	same basis		R I	47 % 48 %
E. Oft	26,80	38,0	ht	on abrasion (HA bulk, c.l. wo	F), high stru rks:		.2300 2600	, .	I 70% chlodas	resinpus, 5	O-lo:	10 mm - 11 mm	(-
povid dr		را الحالمة المنظولات المنظمة المنظولات	162 · 1	bga., c.l., workt	والمؤالية ووالم	. b.	2000	CHE		ING REP	QRIER	1	33
		100 m		Septe	mber 29			1917		Carrier and Marie and Carrier and Carr Carrier and Carrier and Ca		ile in the second secon	。 () ()
		A Maria	A November	以		A SI LES	11.5) (Japan)	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 10 a 2 b 10 to 14.	,	T. 11. D. 11. 2	

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			والمستوال في المستوال	
			CMC, technical, 96% minimum, low or mediumvis., bgs., 24,000bs.,	
		\	f.o.b. Hopewell, Va., 100%	
CIVIL	<u>ا ا</u> ت		basis	•
			turingo int	-
PRICES	.		Coaltar pitch, indust., i.g., works .1on. 250.00 roofing, 140-155, Federal specifica-	255.00
PRILES			tion RP-381 Type 1, bulk	
IIIVMV		ľ	workston 350.00 Cobalt acatate, dms., t.l., frt. alld lb. 3.61	4.25
WEEK ENDING SEPT 20	6 198	I	Cobaft carbonate, powd., dms., frt.	8.16
772774	J, 100.		Cobalt chloride, dms., 5,000 lbs. or more, ft. equald lb. 4.15	_
Chlorinated parafiln, Zone 2 prices are Zone 3 prices are 2c per lb. high			Cobalt hydrate, dms., t.l., frt, a8d ib. 8.20 Cobalt metal, 99.5-99.9%, 250-kilo,	10.55
are 5c per lb. higher Chiornated rubber, 5, 10, 20 cps , bgs.			dms., f.o.b. NY, Chicago. ib. 11.70	-
t.l., divd	1.66 1.92	-	Cobalt naphthenate, liq., 6% Co., dms., dwd	-
125 cps., bgs., t.l., divd	2.60	Ξ	Cobalt nitrate, dms., t.l., frt alldlb. 2.74 Cobalt oxide, imp., black, 72-73%	3.45
300 cps , bgs , 1.1 , divd ib. Chlorine, tanks single units works,	2.75		Co	-
f.o.b., frt. equald ton Chloroacetic acid, mono, high purity,	195.00	200.00	Cobalt phosphate powd. 32.1% Co.,	_
flake, 99% bulk f.o.b. worksb.	.56	_	dms., divdib. 1.35 Cobalt resinate fused, 3% Co.,	-
2-Chloro-4-aminololuene, tech., fig., dms., c.l., t.l., f o.b. works . b.	1.88	_	Cobalt sulfate, cryst., bgs., 10,000 lbs.	-
o-Chloroaniline, liquid, dms., c.l., f.o.b.		_	or more, frt. alid. E ib. 2.81 monohydrate, dms., frt. alid ib. 4.58	3.54 6.02
works	1.63 1.55	-	Cobalt taliate, 6% Co., dms., dlvd lb. 2.16	_
p-Chloroanline, solid, c.l., t.l., f.o.b. lb. flake, dms., c.l., same basis tb.	1.70 2.00	_	Cocoa butter, spot	.45
o-Chlorobenzaldehyde, dms., t.l., worksib.	2.45	_	Coconut oil (See Oils, Fats & Waxes market report Coconut oil acids, distilled, t.c.,	.).
p-Chlorobenzaldehyde, dms., 2,000 lbs. or more, worksb.	3.84	3.85	f.o.b	.59 .63
o-Chlorobenzolc acid, dms. I.t.l. wks ib. p-Chlorobenzolc acid, dms., 500-lb.	3.90	-	Cod oil, f.o.b., Gloucester, Mass.	.40
lota or more, works fb.	1.69	2.25	Codeine alkaloid, NF, 25-kilo lota, kilo. 900.00	-
Chloroform, tech. tanks, distr. divd ib. tech., consumers, tanks, divd ib.	.341/2 .341/2	_	Codeine phosphate, USP, cns., 25-kilo lots	-
NF tanks, min., consumer, 4,000 gals, divdb.	.35%	_	Codeine sulfate, NF cns., 25-kilo lotskiio 775.00	_
2-Chloro-4-nitrosniino, paste, com- modity basis, dms., t.f.,			Codifiver oil, NF, dms. gal. 6.50 Copalba balsam, dms. lb. 1.50	7.25
f.o.b.	3.06 3.15	-	Copalba off, cns., dms	Ξ
4-Chloro-2-nitroanine, paste, 172.5	J. 19	•	Copper acetate, monohydrate, cryst., tech., dms., t.l., works ib	.74
mol. wl., commodity basis, dms., t.i., 1.o.bb.	2.25	-	Copper bromide (cupilc) 200-lb. dms., 100,000-lbsper-year con-	
o-Chlorophenal, dms., c.i., frt.	2.70	-	tracts, works	-
equaldb. p-Chlorophenol, dms., c.l., frt.	2.00	2.40	dense, 50-lb. bgs., c.l., t.l.,	
equaldib. Chieropicrin, comi., 1,500-lb. cyls., t.i.,	1.25	1.70	light, fluffy, 50 lb. bags, c.l., t.l.,	-
f.o.b. worksb. Chlorosullonic acid, tanks, Irt.	1.25	-	works 100 lbs. 109.30 Copper chloride (cupric), anhyd., c.l.,	-
equaid	.18%	-	works	-
p-Chlorotoluene, tech., tanks, worksb.	1.00	-	B). lots or more lb. 2.30 Copper fluoborate, (cupric), liq. conc.,	2.62
Cholecalciferol, dry, 40,000,000 units per gram, kilo lots gm.	24.00	_	ams., t.l., works, frt.	
kilo dms., (o.b. Springlield			equald	-
Mokito. Choline chloride, feed grade, 70%	6.90	-	dm., frt equald lb. 6.50 Copper melal electrolytic wire bars,	-
acuverous, cc., c.c., divo ≥ oi			divd., domestic, basisib. 62½ Copper naphtherate, Ifq., 8% Cu.,	-
Rockies ib. 60% dry supplement ib.	.28 .39	-	dms., frt. alld lb. 1.19 Copper nitrate (cupric), purif., flake,	-
Choline chloride. 60% dry supplement, bulk hopper cara	.39	_	ams., t.l., works	-
bgs., 50,000 lbs. min lb. Choline chloride, pharmaceutical, 50	.40	-	Copper cleate, solid, 6% Cu. cime., works frt alld	_
klio, lots, f.o.b. Springfield, Moklio	5.00	_	Copper oxide, black (cupric), dms., 80,000-lb. lots, workslb. 1.21	_
Choline dihydrogen citrate, 98% min., 50 kilo lots, 1.o.b. Springfield,	0.00	·	red (cuprous), dms., 97%, USN Type 1. (AA), 80,000-lb. lots,	
MOkilo	6.00	- 1	worksb. 1.19	1.20
Chrome green, CP extra light, bgs., divd. E. of Rockles	1.68	- 1	Copper-8-quinolinolate, 10%, liq.	-
light, bgs., same basis b. medium, bgs., same basis b.	1.70 1.72	-	emulsion, t.l., divd	-
extra deep, CP., same basisib. Chrome grange, CP. bgs., divd. E. of	1.74	-	99% bgs., c.l., f.o.b. works 100lbs. 48.45	_
Rockles	.83	.89	CP, pentahydrate, cryst., dms., l.c.l., works 100 lbs. 60.00	
Hockies	1.09	1.18	mononydrated, 35% Cu, dma., c.l.,	-
irt. equaldb.	1.18	-	works	-
grd. same basis	1.25	-	Corlander oil, USP, dms (b. 22.00 Corlander seed Moroccan	28.00
500-2,000-lb. lots, works. lb. Chromium fluoride, dms., t.l.,	.10	-	Rumanian	.37
works b. Chromium nitrate, dms., t.L., f.o.b lb.	.81 1.45	-	Comoil, crude, foots (scapstock), 95% acid; New York	14
10% metal soin., 500-lb. drns, same	.74	.86	Corn oil acid, dms	_
Chromium oxide, hydrated, 50-lb. bgs ,c.ilb.	5.50	_	Corn syrup 43 Be., tanks, f.o.b.	.40
pure, bgs., c.l	1.90 1.85	2.00	Contisone acalete, USP, dms., 5 kilos	11.43
Cinnamic alcohol, 25-lb. cns. lb. Cinnamon, H2 lb.	4.50	2.45	or more gram80 Cottoneeed meal (See Oils, Fats & Waxes market	report.)
Cinnamon bark oil, bots. ib. Cinnamon leaf oil, dms. ib.	1.05 88.00	1.10 95.00	Cottonseed oil (See Oils, Fats & Waxes market rep Cottonseed oil, acidulated (soap	ort.)
Citres, net., dms b.	2.80 5.50	6.65	stock), acid, 95%, tanks,	
syn., 55-gal. dms 1.o.b lb. Citric acid, USP, hydrous, gran., 250-	3.18	-	I CONTONISERO OF ACIOS, CISI., CITAS To 83	Ξ
lb. dms., t.l.,	1.19	-	tanks	-
Citric seid anhyde, cowder be, hinher	.86	-	lotsb. 6.00 Cream of larter (see Potaeskum bilartrale).	6.20
Citronella oli, Ceylon, drna	2.12 5.05	2.24	Graosota, coaltar, grade 1, tanks,	1.18
China, dms kilo	4.30		80in., 80/20, tanks, same basis, gal. 1.134	1.17
Citronalial, 25-lb cans	3.85 3.68	7.40	m-Cresol, 95-88%, dma., t.l., l.o.b., lb. 1.71	=
Citronellyi acetate, dms ib. Citronellyi formate, 25-lb. cns ib.	6.60 6.85	6.50 	tanks, same basis	. =
Given, artir., bots	20.00 500.00	Ξ	bulk, same basis ib. 82 o-Cresol, 99% pure, dma., t.l., f.o.b. ib	=
Clay ball, dom. air floated, bgs., c.l., Tenn ton	49.00	_	bulk, same basis	.]
dom., crushed, moisture-repel- lent, buk, c.t. Tenn Ion	24.00	_	buik, same basis b	-
Clay China (see Kaolin). Cleaners, naphtha, 140° flash tanks	_ 1110	-	bulk, same basis	1.15
New Jersey or New York	, ,,		content above 25%, resin and	
divdgal. Clove leaf oil Indonesian, reg. dms. kilo	1.40 3.15	=	tricresyl phosphate grades. tanks, int. alkiib	
Madagascar, reg kilo Clove bud od	3.60 24.00	-	Cresyllo acid, dom., metapara content 25% or less, tanks, frt, aid, lb	
Croves, Brazilib. Zanzibarb.	2.20 4.20	-	Crotonic acid, 200-lb. dims., t.l., I.o.b.	_
Madagascarb.	2.20		Cryome syn., bulk, c.l., works ton 510.00	550,00
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				J. Pitathulkashilusia asidda a R	- 6	
	Cube root, pawd., 5% rotenone, basis, 50-libbgs., t.l.,works lb. Curnene, bulk, contractf.o.b lb.	.14	.14	Diethyl barbituric acid (see Barbital) f.o.b.warksib.	1,40	Ophenyl oxide, tech.
•	Curnin seed, Indian, bgs	.95	1 00 1.37	Diethyl ethanolamine, CP dris., c.l., divd	1.18	pohenyramine, irt. e
- 5.00	equaldb. Cyclamen aldehyde, 50% min. aldehyde	1.16 4.85	-	Digithyl of hanglaming tech , &c per lb & Diethyl oxalate, dms, c.i., lob	1.10 . Pwer	moten, tanks, v octylated. flake works
J.00	96.5%., dms	7.35 7.85	9 20	works ib Digityl phthalate, tanks, f.o.b ib odoriess cosmetic grades, t.i	1.80 - .69 88	pphenylguanidine.
_ 1.25	Cyclohexane, bulk, barges, wksgal. Cyclohexanol tech., tanks, f.o.blb.	.9825 .52	.9925 .66√a	Works Ib Diethyl suifate, tanks , frt, alld, E in	.97½ .59	Ophenylhydanto dms. Dohenylmethane
3.16	Cyclohexanone tech., tanks, f.o.b. works	.55\t .565	.581/2	Distriyi thioures, dms., c.i., i.i., works	2.40	ONALISE IN
_).55	Cyclohexylamine, tech., tanks, works	.85	_	Di-2-othylhexyl adipate (see Dioctyl adip Diethyl toluamide 95-97° amin meta isomer, dms, t.l., fob.	ate).	Opropytene glycol i Opropytene glycol i dms., c l., c
-			in The	works N.N-Diethyl-m-toluidine, tech., lig	2.75	tenka, sama no tolviousnicina.
_ 3.45				dms , c t , f o.b ib. tanks, same basis ib Diothylamine, dms , c t , dlvd ib	3.18 _ 3.10 _	irt. alid D-o-lolyithiourea. LL, irt. alid
-	IJ			N.N-Dielliylanding, dms , c.l., t.l., f o h	1.15 _ 1.02 _	Dandecyl phthelate Gwraecyl phthelate
_	2,4-D acid, tech., 50-lib. bgs , c.l., t.l.,	-		works	1 83 - 1.75 -	Ominylbenzene, 1 works dms, 100% be
-	works, frt. equald lb. 2,4-D butyl ester, tech . 55-gat. dms.,	1.10	1.25	Di-2-othylhexyl azelale (see Dioctyl azel) Di-2-othylhexyl phihalale (see Dioctyl ph	98 - \ ato) 1halate).	podecanol, syn., indecenyl succini
.54 .02	c.l., t.l., works, frt. equald lb. tanks, same basis lb.	1.30 1.25	-	Diethylono glycol, tanks, divd E ib Diethylone glycol monobutyl other, dms.,cl. frt. alld E ib	2912 .3112	C.I., L.I., ON nodecylpenzene (9
.45	2,4-D dimethylamine sait, t.c., t.t. works, frt. alid	8.05	-	tanks, fri alid E b Diethyleno glycol monoethyl ether.	.65 - .57 -	Ordecylphenol, fo E Ores, coaltar, cert
_	divdib. perfume grade, drnsib.	32 .75	-	dms.cl.frtolldEb.	. 64 – .58 –	drugs and
.59 .63	Defluorinated phosphale (tricalcium), feed grade, 18% P, c.l., bulk,	407.00	000 00	Diethylene glycol monomethyl ether, dms. c.l. irt alld	.62 - .54 -	Pue, FD&C. No. 1 No. 2 Green, FD&C. No
	f.o.b. works ton Danatured alcohol, ethyl, CD18, CD19, tanks, civd. E gal.	195.00 1.87	228.00	Diethylena glycol monobutyt ether ac- etate, dms , c I , dlvd. E lb	.80 -	Red, FD&C, No. 3 Yellow, FD&C, No.
	NOTE: Tankcar sales require written at and Tobacco Tax Division.		n by Alcohol	tanks, divd. E	.72 – .80 -	No. 6
25	Denatured alcohol, ethyl, SD2B, tanks, divd. E gal.	1.81	-	tanks, frt. alid	.72 -	divd. Green, D&C. No.
	SD3A, tanks, divd. E gal. SD23A, tanks, divd. E gal. SD23H, tanks, divd. E gal.	1.76½ 1.86 1.89	-	works	1.60 1.61	No.6
74	SD29. tanks, dlvd. E gal. SD30, tanks, dlvd. E gal.	1.83 1.72½	-	tank- cars/tanktrucks, frt- equakzed b.	.45 -	No. 19
.	SD35A, tanks, divd. E gal. Denatured alcohol, ethyl, brucine formula	1.881/2	-	Digitoxin, USP, Imp., bols gram Digitocol laurate, dnis., ton lots Ib Digitocol stearate, dms., 1.1	2.60 3.00 .32√₂ -	No.28
	SD40, tanks, divd. E gal. ethyl, optional formula, SD40, tanks, divd. E gal.	1 83 1 821/2	-	Dihydrazina sulfate, dms , works ib. Dihydrostreptomycin sulfate, bulk kilo	.62 .73 1.10 1.25 48.00 -	Yellow, D&C. No No. 8
	For anhyd, alcohol on above formulae, higher.	prices are	2c. per gal	Dihydroxyacetone, 50-kilo lots, works kilo	40.00 -	No. 11
	West Coast divd prices are the san except in ideho, Oregon and W	ashington :	lern prices, where a 5c.	Di-isobulyi ketone, tanks, divri ib Di-isobulyi phthalate tanks, divd E ib. Di-isobulyiene, tanks, f o.b Hous-	.60 - .55 .57	and pag dex Nau A Bik 1 Blue b
B2	differential on tankcara is maint. Desoxyephedrine hydrochloride (See & drochloride)	ained. Vethamphi	etamine hy-	ton	.37 - .40 .40½	Dyes, A Bi 9 E A Bi 45 Alizari
.	Detergent alkylate, stræight chain do- decylbenzene, tanks, barges,			Di-isononyi phthalato, tanks, divd. Ib. Di-iso-octyl azolato, tanks, divd. E ib. Di-iso-octyl phthalate, tanks, divd ib.	.40 - .99 1.07 .40 -	A BI 90 Alizari A BI 113 Navy A Gr 16 Gast
.]	f.o.b	.45	-	Oi-isopropanolamino, dms., c l., frt.	661/2 -	AOr8ROEx
	c.l., works	28.04 27 43	-	tanks, samo basis	58½ - 1.17 - 1.07 -	A Or 10 Wool A Or 74 Meta A R 2G
	Dextrose, anhyd., comi., bgs., c.i., divd. New York 100 lbs.	41.10	-	Dilauryl 3.3-thiodipropionato, dms., t l., frt. alidb.	1 89 -	AR 14 Azo P AR 18 Scarle
	USP special, 100-lb. bgs., c.i., dlvd. New York 100 lbs.	46.50	-	Dill oil, USP, drns	7.00 8 25 15.80 -	AR 88 Fast I AR 151 Silk
	Dextrose, hydrated coml, bgs., c.l., dlvd. New York 100 lbs. Western zone 100 lbs.	24.25 25.60	-	ib. dms b. Dintolhyl carbonate, dms, t1, f.o b.	6 95 -	AV 17 5BNS AV 49 4BNS AY 17 Fast
20	Diacetone alcohol, acetone free, tanks, divd	.52	-	works. Dimethyl dichlorovinyl phosphate, 55-	.90 - 1.80 1.90	A Y 23 Tartr BBI 9 Zinc F
-	Diacetyl, flavor grade, dms	9.25	15.00	gal dins. f ó b lb. Dimothyl athanolamine, anhyd., dms., c.l., divd. E lb.	1 15 1.18	BBr 4 Blama BG 1 Jade 0 BGr 4 Mala
	min. 18% N, 48% P. bulk, c.t., f.o.b. Fle. works ton Diammonium phosphate, feed grade,	140.00	145.00	tanks, divd. E	1.07 1.10 .38 -	BV 1 Methy BV 10 Rho
.	18%N, 20% P, bulk. c.l., f.o.b. Fla. works ton	240.00	_	divd	.65 -	8 Y 2 Bond D BI 1 Sky E Ex. Cond
	bgs., same basis ton Diammonium phosphate, tech., bgs., c.i., t.i., works, frt.	250.00	-	Dimethyl sobacate, tanks, 1.0.b works.	2.48 2.68	D BI 8 Azur D Bik 22 Fa
00	equald	52.50	-	Dimothyl sulfate, rot. dms., c.l., f.a.b. works	.57 - .46 -	Fast B D Br 230 (2009
37	sia	57.75	-	Dimethyl sudikle, tanks, works b. Dimethyl sudioxido, tanks, works b.	.69 - .76 - .87½ -	D Gr 26 Re
14	oms., c.i., t.i., works	1.04 .97	-	Dinothylacotamicia, bulk f.o.b lb. Dinothylamino, 25% soin., tanks, fri. equald., 100% basis lb.		C DR 31 Brid DR 60 Fas DR 81 Pa
40	o-Dianisidine dhydrochloride, 100%.	6.20	-	40% soin , tanke, frt. oquald., 100% basis	.63V7 - .54V7 -	DR 251 F
.43	MW 244, dms., t.l., dwd lb. 2,6-Di-tert-Butyl-p-Cresol (see Butylete Dibutyl fumerate, tanks, f.o.b.	4.26 d hydroxyt	oluene)	anhyd., tanks, frt oquald b. N,N-Dimothylankino, t.l., f.o.b b. t.l. dms b.	1.03 - 1.11 -	WS. Co D Y 4 B 125
- :.)	Dibutyi maleale tanks, f.n.b. works, th	.77 .63	.85 .64	N,N-Dimethytlermamide, dms., c.i., l.i., I.o.b., works lb.	.57 - .49 -	Britant D Y 11
	Dibutyl phinalate, tanks, works lb.	.54 1.72	.60 1.89	tanke, same basis	1.22	D Y 41
-	Dibutylamine, dms., c.l., divd. lb. tanks, same basis. lb. 2-5-Dichloroaniline, flake, dms.,	1.12 1.06	-	divd. E. of Rockies 10. 2.4-Dinitrochlorobenzena, crystalizing	6.20 -	Disk 1S
- .20	fused, dms., works	2.00 1.80	-	at 47°, t.l., f.o.b. Charlotte, N.C	.96 -	DIS R 91 DIS Y 3 Y DIS Y 64
.18	3.4-Dichloroanline, tech. 86%, solid, dms., c.l., t.l., f.o.b. works . lb. c-Dichlorobenzene, tech., 80%, dms.,	1.48	1.57	Charlotte, N.C	1.95 - .30 .43	Dis Or 37
.17	C.I., t.I., divd	.52 .45		works	1.25	Ols V 1 4 Ols V 26 Dis B1 2
-	tanka sama boole	.54 .47	-	tanka, works	1.20 .70 .61 .70 .99 1.04	Dis B1 102 509 VG 1 Ja
=	p-Dichlorobenzene, graded, 300-lb. dms., t.l., f.o.b., frt. equald. lb. tanks, iq., same basis	.51 .43	.52	Dioctyl zzelate, tanks, dlyd. E lb. Dioctyl phthalate, tanks, dlyd lb. Dioctyl sebscate, 98%, tanks, 1.0.b.	.40 .40	V Bik 25
-	10.000 lbs. or more words.		.47 _	1,4-Dioxane, tanks, int. alid. E ib.	1.47 1.19 1.21	
_ 1.15	Dicyclohexylamine, dme., c.l., 1.l.,		·	t.i., same basis	1.42	
· ·	Dicyclohexul phthelete has	1.35 1.25		Dipentene aleam-dist., tanks, f.o.b. Fla. works ib. auliale turpentine derived, tanks ib.	25 39 25 28	
-	Dicyclopentactione, high-purity, 97-		•	1 Dip on tage 1 er 200 bill		Endrin, le Ephedrine
	Digitizatolembe la ma int. and.	.35 .44	47	dom., 1,000-kilp lots, ome.	24.00	Ephedrin
00.00	DOVP (see Dimethy) dichtoroulous plans			Diphenyl, 98.9%, bgs., c.f., t.f., works,, b.	A CONTRACTOR	Ephedrin
, r						Epichioro
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Olyd, 98.9% bige, c.t. l		100
			//			
						A
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	anke ih	1,11	1.20 l	Epinophr	ing base, syn , USP, bots.,		1	Ferric chloride, se
phenyl oxide, lec	h.grade.tanks .lb ld., flako. bgs . I I . eouald lb	_		· · · ·	100-gram tolsgram in, liquid, bulk tanks, divdlb.	.60 1.31	1.41	cent bas works
works, Irt.	equald ib	1 25 1 00	- 1		gs., t l	1.281/2	1.331/2	Ferric nitrate, cry
	workslb. ke, bgs, ii, io b	7 40		Epson s	ali (see Magnosium sullate). c acid, powd., gran., 100 lb.			Ferric oxalate, te-
WOLKS.	bos 11 fet alld	7 68	- 1	1	dms , i.l. or mixed t.l. f.o.b.			Ferric oxides (see
ovenAignauname	ib	2 52			works	4.10	4.25	Ferric phosphate der, dmi
_{i ohen} yihy dant	Olu-200igin og i	5 00	5.60	_	divo., III., Md., Ky., E. States,			Femc pyrophos
			l		Minneapolis, N.C., Ohio, St. Louis, St. Paul, Va., W. Va., ib.	.75	-	pearls, l Ferric resinate
Collumning	ib.	91	-		m, wood-rosin type, dms., c.l.,		.46	dma., to
		45	-	Ethyl ac	same basis) Ferric sulfate, pr bgs., c.l., works
Josepheue divon	dudb.	.54	-	-	divd	41	.41% .42%	bulk, wor
		46	-	Ethvi ac	etoacetate drns., c.l., divd Ib	. 1.13	-	Ferric ammonit
p-o-tolylguanioin frt. alld.	e, powd , dms , 11 , lb.	2.92	-	tanks Fibyled	, divd ib rylate, tanks, irt alid ib	. 1.05 .66	-	2,0001
D-o-Locytthioures	i, lech , soliu, uliis . id	3.11	-	Ethyl al	cohol, syn., 190 pf., USP lax	(_	_	2c. per pound s
	14 TOTIKS DIVU IV	64 .61	.65 .65	Ethyl	tree, tanks, divd. E gal alcohol, absolute, 200 pf., la:	, tree prices	12c. nigher	Ferric-ammonia 250-lo
Dangecky bytomics	100% basis, tanks			1	than 190 pf., tax free. Jicohol, fermentation, tanks			E
		2.75 3.00	2.80 2.70	1	In h works	1.06	1.28	Ferric hydrox
min	basis ib. tanks, f.o b ib	.76/2	-	Price	range attributable to various a cohol, denat. (see Denatured a	kate tax knce Jechol, ethyl	noves. D.	sodiur
a. January Cucc	inic anhydrida, dma dvdib.	.88	_	Ethylo	-aminobenzoate, NF (\$66 Benz	Locaine).	1.50	t.c., t. egricultural
- ILABERADA	. Jean Chainfiliant Alkylatt	a).		Ethyl b	enzoale, dmsli romide, tech., 98%, dms., c.	i	1.00	tion,
Dodecylphenol.	Tauks, min. In. mio.	.48	.53	1 1	frt. alkd. E	סיו. מ	1.50	Ferrous fluobo
ann earlier of	whited colors for 1000.			Ethyl	cellutose, standard vis., / cp	9.		work Farrous aluco
drugs 8	nd cosmatics, 100 lb. r. irt. prepaid or alid.			1 -	bgs., t.l., frt. equald. El dard vis., 10, 20, 45, 100 cp	D. 4.50	•	Ferrous napi
MA COLC NO	1 ID.	21.20 29.15	22.60 29.22	1	t.l., irt. equald. E	D. 4.17	4.22	dms. Ferrous suifa
A EDSC N	io. 3	49.50	65.00		Burn vis., 50, 70, 100 cps., tJ., t equald. E	b. 4.25	-	work
PAR CORC NO	3	24.00 7.45	24.50 7.85	USF	vis., 7 cps bgs., t.i., frt. equal E	d.	_	heptahydra work
un Q		6.45	6.75	USI	P 10.20.45.100 bgs., t.i., I	т.	100	monohydra
Two coeller C	ertified colors for drugs esmetics. 100-lb. lots				equald. E (medium) 50,70,100 bgs., t	ID. 4.08 .l.,	4.69	USP, power
distri		20.50		1	Frt. equald. E	(D. 4.⊇]	_ .28Vz	cryst., 250
No &	o. 5	38 50 42.80	Ξ	1 .	chloride, tech., cyls., frt. alld tanks, irt. alld.	D24	.261/2	Fir oil, Canad Siberia, dri
Dest D&C: No	4	18.85 38 90	-	Ethyl	cinnamate, dmsethanolamines, mixed, dms.,	(MO 41.UU	-	Fish oil, refd. kettle-bod
KA 10	ib.	38.25	-	1 '	died E	D. 1.60		light, cold-
No 22	lb.	12 45 59 95	<u>-</u>	5000	anks, divd. E. ether, retined, tanks, f.o.b.	ID. 1.15	3 -	tanks Fishmeal,
No. 33	lb.	48.95	-	Ethid	hevanoste dms	.1D. 4.40	5 4.75	pro
Yellow, D&C, N	10.7	. 21.00	-	ı	yihexoic acid, dms., c.l., t,l., d E.	. ID		lant l.o.b. G
No. 10	ID	. 48.00	48.85	tar	skedlyd F	. ID	7 -	Imp., Ch
No.11	for general use in clot	. 35.25 1	-		hylhexyl acrylate, straight mixed, tanks, irt alid. E.	.10.	9.5 -	Atk
and pa	aper dyeing (by Color In	-		2-Ett	nyihexyl alcohol, tanks, dlvd I lodide, cbys., works	ъ 3 ъ 62		Fluoboric a
A R& 1 Plug	eme). f.o.b. works black ex. conc !b	5.75	-	Cabin	Hrakov svn. 55-081. OMS	. ш. 10.0	o -	Fluorocarb
Dwag A Big	Blue 2G) 540	-		linalyi acetate, syn., 55- dms	10 10.0	5 -	No. 12, b
A BI 90 Aliza	arine Br. Cy G 10). 14.13	-		yl methaciylate, tanks.	lb. 1.0)6 -	No. 22, b
A BI 113 Na	ivy 5R). 6.33	-	n-E	itul marchaline, dms . 🗀 .	m	00-	No. 113. No. 114,
AQr 7 11		b. 372	-	٠.	alio.	ib. 1.		Fluosilicic a Formaldeh
AOr 10 Wo	Ex. Conc	D, 4.3U	-	n-È	thyl-a-naphthylamine, d works.	ms.,	D4 -	ini ini
A Or 74 Ma	tallized Or GNA	b. 6.15		Eth	ul avalete fene Diethvi OXBIBIOI		-	44-45 di
AR 14 Azo	Rubina 133%	D 8.83	-	Eth	yl parathion (866 Parathion, 60	ıyı; x (hosilicate)).	37%
AR 18 Sca	rlet 4R Conc	b. 545 b 685		Ein	ul cilicalo Allão avallable v	31021	45 1.46	37%
AR 151 Si	k Red 313 Conc	D. 4.5U		l	dms., t.l., f.o.b. works tanks, f.o b. works	.ib.	39 -	Formamid
AV 49 4BN	NS Conc	(b). 12.28	2 -	N-E	thyi-m-toluidine, tech., liq., c.l., l.o.b.	oms.,	.18 -	dm
AY 17 Fas	I Light Yell 2G	lb 56!		- 1	tecke same basis	103	.10 - .85 2.90	Formic v
BBI 9 Zinc	:Free	10. 16.49	- 0	N-S	Elhyl-o-toluldine, dms nyl vanifiin 100 ib. dms., 500 ii	us. ui		95
8 8 r 4 8 ks r	nark Brown R Ex. Conc a Crystals	ID. 4.4				10. 10	.50 - 1.75 -	Fructose
8 Gr 4 Ma	lachile Green Crystal	ib. 6.9	0 -		25 lb. dms., 500 lbs. or more 100 lb. dms., less than 500 lbs	10	.00 14.50	D Furnaric
BV1Met BV10Rh	hyl Vlolet Crystals lodamine B Ex	ib. 10.9	5 -	1 = 1	nylamine (see Mono-Di- and Tr Ethylaniline, dms., c.l., t.l.,	1-) 1.0.b.		tech.
BY2Bon	d Yall SFA 150%	Ib. 10.1			WORLS	10.	1.66 - 1.56 -	Furfural,
Ex. Cor	Blue 6B Conc	lb. 9.2	5 -	۱.,	tanks, same basis hylbenzene, bulk, f.o.b. Ho	usion.		
DBI 6 Azı DBIR 22 I	urine G Conc	. lb. 9.4 . lb. 2.6			Tex	10.	.1B .1	3 Furluryi
Fast	Black GR 150%	. ID. 9.7	28 -				6.00 18.2	26
D Br 230	Resin Fast Brown BR	.lb. 7.		E	hylenediamine, 98%, tenno,	lb.		305
D Gr 28 F	Resin Fest Groon GL Ex. Cono.	.lb. 10.	16 - 98 -	E	ADIDOODWA ASSOCIATION	ID.	7,55 9.2	" []
DR31 B	niiant - Red 12B Conc.	. ib. 6.	16 -	[thylenediamine tetrascetto a trasodium salt, soln., t.	V., t. t.,	.361/2 -	
DR 81 P	ast Red 8BLN		ėš -	\ <u>_</u>	frt. equald	(rt		46
DR 251	aper Red 8BLP Fast Scarlet AV 2 Fast Orange WSP Liq.	. lb. 6.	25 - 47 -	٦	equaldtanks, int. equald	10.		42 G salt, d
WS. C	iona, 150%	.ib. 11	26 -	F	ukadaaa dichiotissa, taliks,	1.0.0.		4714 Gallic sc
U Y 4	Brillant Paper Yoll : 25%	ID. 4	.69 -		workstan	ks. frt.	•••	Gelatin,
Britis	nt Papor Yell 30X Liq Stilbene Yellow GA.	1b. 1	.75 -				.31 -	120
C	one.	lb. 3	.03 -		Ethylene glycol, monocuty	i b.	.411/2 -	15
U Y 41	Fast Yellow RGL C	onc.	.75 -		Ethylene glycol monostny	b.	.51	- 17 ¹
DY 27	Rosin Fast Vallow L5G.	. Ib. 14	.40 -	: 1 i	caladama abiadi MODOMBIOY	i aribai i	.34	_ 22 25
Dig In 8	Scarlet BA 1 Pink REL 200%	10. 4	.00		(anka divu. E	rher aC-		27
U19 Y 3	Yellow G4 Yellow 3G	10.	3.65 3.84		eleie, terks, irt. alu. i	ther ac-	64 V2	~ 30 Gentia
UNIO	3 Oranos OPA	ID. 4	l.91				,55 ∜ ≥	Gerani
4371	37 Orange OB 4RN Paste	ID.	3.77 7.85		Ethylene giycol monomethyl etete, tenks, frt. alid.		.43	nat.,
0872	6 Bordeaux BV 200%. 27 Blue BGLF	ID. 1	7.25 0.05	: 1	Ethylene oxide, tanks 1.0.0	methylene		.46 Gerani Bou
ng 81 10	028lua GFDA 300%	lb. 2	2.80 .	-	Ethylene trichlorkie (age trick)	ese .kilo.	7.50 3.10	Chin
VG1.	7% Paste	TD.	B.50	- {	Eucalyptus oil, Chinese Eugenoil, USP, dma	, kilo	7.55	- Egy
VBk	25 Office TA Paste	Б.	5.65		Enforcet on Louise 1111		1 6 3	Geran
	ابتندي والكادات							Geran
	· ·			1		. 177		nat Glisor
			. :	1		· ·		sels
				١, ١				Ginge Chi
			<u>! ~~</u>		The Court Land one	, klio	9.00	Chi Ginge
Endrin,	lech., 95-99%, dms., t.l.	b.	7.00	-ş.,	Fennel oil, sweet, USP, ons. Fennel seed, Egypt	ib.	.37 .80	100
	NG ALES ARMOND INDO	HID.AT	,1.25		Indian	lb.	25	.32 Giput
Ephedr	lots. Ins hydrochloride, NF, less than 1,000 kg.	cryst.	38.25 4	0.25	Ferric chloride annyd tech	1, 350-10. 10010s	36.00	Gluco
Ephedr	ine sulfate, USP, cryst	dms.		5.25	oma, oli, works	to arade :	9.10	ten
	leas than 1,000 kilos . rottydrin, tanka; divd		43.00 ·4	7	Ferric Chionos, AZ per per coms. c.l. works		And the second	The Assessment

		كالوال المراجع	
_	Fen	ric chloride, sewage grade, 100 per- cent basis, f.o.b. works, tank	li
1.41 1.33%	Fer	works	55.00
		ric oxalate, tech., gran., 50-lb. dm., 1.o.b. works	-
4.25	Fer	ric oxides (see Iron Oxides). ric phosphate, FCCg insoluble pow-	
	1	der, dms, 10,000 lbslb. 1.10 mic pyrophosphate, soluble, purll.,	1.15
-	Fe	pearls, 50-lb.dm	- [
.46	Fe	dms., ton lots int. slid lb	-
.411/2	þå	s., c.l., works	-
.42Va 	Fe	erric ammonium citrte, NF, brown, green gren. 100 lb. dms.,	į
-	- [2,000 ig. min., 1.0.0. sapping	2.95
_ 12c. Nigha		c. per pound surcharge for ahlpments W. of Deriva arric-ammonium oxalate, fine gran	· \
126. IIGIK	- (250-lb. dms., t.1., f.o.b. works. E	-
1.28 ntives.		arric hydroxysthylana diaminatri- acetic acid, industrial grada.	
	-	sodium sait, sohn., 4.5% Fe, t.c., l. t., f.o.b. works lb	-
1.50		agricultural grade, sodium salt solu- tion, 5% Fe, t.c., t. t., f.o.b.	_
1.50	-	worksb64 Ferrous fluoborate liq. conc., dms., 11.,	_
_		works, frt. equald lb	=
4.22		Ferrous naphthenate, Ikq., 6%, Fe. dms., dvdb. 1.17	-
_	ļ	Ferrous sulfate, moist, bulk, t.l. f.o.b. works	-
_	- }	heptahydrate, gran., bulk, t.l., f.a.b. works	150 00
4.69	,	monohydrate, gran., bulkt.l., t.o.b. works	180.00
-		cryst . 260-lb. dms	-
.26 .26		Siperia dms	-
-	-	Fish oil, refd., alkeli, tanks, c.i	.36
-		light, cold-pressed, dms., c.t	=
4.70	5	protein ard., bulk, f.o.b. At-	
-		tantic port	
' -		imp., Chilean, 65% protein mirt., bulk, c.l., t.l., ex whse., f.o.b.	_
).5 - ; -		Atlantic and Guit ports ton. 205.04	_
; -		equald	
5 -		delvd	8 .74
6 -	,	1 No 22 bulk same basis ID. 1.V	9 .934
<u>0</u> –		No. 114, bulk, same basis ib. 1.0 Fluosilicic acid (see Hydrofluosilicic acid).	1.08
)2 -	•	Formaldehyde, 37% metranol rea (un-	090. 090
4 -	•	44-45% (1% methanol) tanks.	1015 .106
		37% (inhibited 7% methanol.	0945 .102
	46	37% (inhibited 11-13% methanol)	1055 .108
39 · 18 ·	_	Formamide, tanks, f.o.b	39 - 44 -
10	.90	Formic acid 90% tanks, r.o.b.	3672 -
85 2 50	_	95% dms , c.i., works	.51½ –
.76	.50	Supporte sold (good grade, bgs t.l., irt.	.90 1.03
,00 14		equald E	.75% .77
.66 .58	-	equald	.62
.22	.23	lowe, and Bello Clade, 1 is.	.75 -
.1B	.18% 8.26	Tenn. and Omaha, Neb ib.	.72 -
	1.305		
7.55	9.25		
.36Vz	_	U	
.38	,46		0.00
.32	.42	G sait, oms., in. and. 100% caster. kilo 2	2.30 - 3.05 -
.17	.17%	Garlic oil, dms., Egypten	5.00 105.0 1.60 1.7
.31	-	105 AOAC lest dris	1.75
.411/2	-	150 AOAC test, dris., LLib.	1.95 2.0
.51	·-	200 AOAC test, omet.l.	2.10 2.
.34	<i>-</i>	250 AOAC test, dms., l.t.l lb.	2.30 2.
.641/2	-	300 AOAC test, one., i.i.	ide).
.551/2	-	Geraniol, syn., 90-9278, onto	3.50
.43 .35	.46	syn. 96-98%, oms	5.75 24.00 27 33.00 38
7.50	· " <u>-</u>	Bourbon	67.00 85
3.10 7.55	-	Egypt	55.00 5.44 6
فيستنيف	_		5.44 6 10.95

equeld		.6272		
weet tanks form Cedar Neplos.		1		
LAND AND HAIR CHADE, FIE. 12.	.75	- 1		
Landalookol terske f.O.D. MB(TID/US)	.72	- ì		
Tenn. and Omaha, Nab lb.		اسسس		
			lb.	8.00
			Heliotropin, dmsib.	•
			Hemiock of (see Spruce of). Henbane leaves, bis	.55
			Lienana ladust tanks (0.0, Deav	
			most Tax	1.07
			I DEGL LOOKE (.O.D. HOUSTOIL	
<u></u>	كتسي		Tev	1.18
alt, dms., irt. alki. 100% basis Ib.	2.30	-	Handennic schi. syn_ tanks, I.O.O	.65
art, oms., int. and. 100 / 000 kilo fic acid, 400-kilo lots kilo	23.05		I I Compressor out and Marks, 1.0.0 · · · ID·	.431/2
	85.00	105.00	Levebydrophthelic annyonde, tech.	1.42
	4.00	1.75	down LLL, LO.D. WORKS IV.	1.75
III Abai	1.60 1.75	1.85	Hexamethylenetetramine, gran. bgs.	.55
406 404C 1981 0019	1.85	1.95	c.i., ti., works	.59
4 KO AMAC IOST MMS. LLIL W	1.95	2.05	pdr. bgs., c.l., t.l., works tb.	.60
176 AOAC test, dris., I.Ll lb.	2.05	2.15	powd.drns, c.l., t.l., works lb.	.63
200 AOAC test, dms., l.t.l. lb. 225 AOAC test, dms., l.t.l. lb.	2.10	2.26	Linuage indust tanks, WORS Wes	1,01
767 474C 1881 (178I.U IV	2.20	2.35	I new tanks 1.0.0. HOUSIQUE	
OTE ACAC INSt. CITIS., L.U	2.30	2.45	1 Yes	1.12
	2.50	2.65	I I I I I I I I I I I I I I I I I I I	.50 -
	ionde). 5.25	_	I Alaakai miyad Bulligie.	.82
	3.50	•	lanta	. 04
ON 0296 ORDS	5.75	_	I - constanción de la companya de la	
syn. 96-96%, dms	24.00	27.50		.50
	33.00	3B.00	Hexylene glycol, tanks, divd	
Chieses		85.00	Hexylresorcinol, USP, cms., 25-to. lots or more, trt. alid	30,00
Econolis	55.00	. - : '		
	5.44	6.00	COO AT IME DOUG.	10,25
	10.95		The second and structure of the second secon	9.70
nat. ons.	6.60	_	GEO OF LOIS DOKE.	
eranyi acetare, critis natdins	15.95	:	Liambourke kerts big	25
				1.54
	180.00	.	Hydrazine nytrata, ib. 88d. ib. 65 get dms. t.j. iri etg. ib.	1.61
	- Joseph		55-001 dans 17-11-011	1,61
Rager, Cookin, bgs.	.55	70	Hydriadic acid, purif. 47%-57% 2 cbys. i.a.b. works.	7.60
Chinese siced	39.00	12 M		
Unger, Coohin, bgs. Ib. Chinese sliced kilo Ringer oil, Chinese kilo Indian Sp.	44.00	48.00	desired to be apple 1 D.	
inger elecresin, NF, bots.	30.00	l. "" (
			Hydrobronic acid, 48% dms., Q.l. I.I.	بقافة
			Hydrobromic scid, 48% dins., Q.l. 1.1., Ib.	38/4
Lob Works	90 44		HARLOCINOUS SICILO* SE MILLES (1990) (1) An AR	
Lob works basis in			THE THE PERSON PERSON	TER
September 29, 198	B	CHE	MICAL MARKETING REPOR	1
Sebretimer values	. A	1 T.		1. m. 1
都可能的 建金色矿矿		1	CARLON TO BEAUTIFUL TO A SERVICE OF THE ASSESSMENT	ate model of the
VI. 16 33, 1516 40 4			والمستقيرة مناصباتها وارتمد فيهمسون فسيستقيها فالهاموة بالموادي أددن أزم ومدومة وأراران	

CH	EMICAL
PR	EMICAL ICES

WEEK ENDING SEPT 26, 1986

ì			
1	Glue, bone, extracted, green, jelly-		
1	grams, bgs., c.l	-	-
	85 Milyorams, bog., C.L., 1.O.D., ID.	.86	-
_ !	115 jellygrams, bgs., c.l., t.o.b lb.	.78	-
5	135 jejivorams, bos., c.l., 1.0.b. , . ID.	.77	-
	164 jelygrems, bgs., c.i., 1.0.b 10.	.79	-
	192 leilvarams, bgs., c.l., 1.0.0 u.	.67	-
	220 jellygrams, bgs. c.l. f.o.b lb.	.93	-
	Glue, hide.	45	
	108 jellygrams, bgs., t.l., f.o.b lb.	.80 .85	_
	136 jellygrams, bgs., t.l., f.o.b lb.	.90	_
	164 jellygrams, bgs., t.l., f.o.b lb.	.95	_
	192 elygrams, bgs., t.l., f.o.b lb.	1.00	_
		1.05	
•		1.10	_
	283 jellygrams, bgs., t.l., f.o.b fb. 315 jellygrams, bgs., t.l., f.o.b fb.	1.16	-
•	347 jelygrams, bgs., t.l., l.o.b lb.	1.20	_
•	379 jellygrams, bgs., t.l., f.o.b	1.25	_
_	411 leitygrams, bgs., t.l., f.o.b lb.	1.30	-
	444 jellygrams, bgs., l.l., f.o.b 1b.	1.35	_
_	477 jellygrams, bgs., t.l., f.o.b., lb.	1.40	-
	Glutamic scid, 9972% dms., 100-fb.		
00	1 lote (ct suid KUD	6.65	-
	Glycerine, nat., reid., USP, CP 994%		
.00		897:	-
-	LISP, CP, nat. 96%, tanks, divd ID.	.8744	-
-	Sun. 96%, tanks divd	.8914	-
_	Svn. 99.5%, tanks divd	.91	-
_	Chucine (see Aminoscettic &CC).		
.36	Giveery) qualacolate. 100-10. IID. QITIS.	4.4 EA	_
_	f.o.b	14.50	-
_	Olycolic scid (see Hydroxyacetic acto)		
	Giyoxal 40% soin., bulk, tanks,	.44%	_
	divdlb.	2.75	_
-	Grapetrult oil, Fla., dms lb.	2.25	_
-	Calif., dms	2.25	-
	Graphite, amorph, powd., bgs., dms., ex whse	.16	.40
-	cryst , 88-90%, powd., bgs., dms		
	ex whse	.30	.60
-	Graphite, cryst., 90-92%, powd., bgs		
.64	drus ex whise	.40	.75
.74	L gs.g6% nawd bgs., gms., ux		
1.14		.60	.90
.931	2 Cranhita amount, Civist., 31-9 encup.		
1.0B	I nowa . Dus., uma . v^	90	1.20
	l whenIII	.80	1.20
	Graphite, flake, No. 1, 90-95%, bgs.	.65	.75
.09	JO dmsex Whse	.00	
.10	No. 2, 90-95%, bgs., dms . ex	.65	.75
.10	of Grease (See Oils, Fats & Waxes market	reporti	
.10	25 Grease (See Oils, Fais a wayes market		
	Grease oil (See Lard oil) Gualacol, tech., 500-lb dms., 24,000lb.		
.10	min., t.o.b. Wallingford,		
-	CODD	2 70	-
-	NOTE: Purified grades are 10c. higher		
	Custacwood off, One	2 50	-
-	Quer cum, edible, bgs., C.I., 1.O.D.		75
-	ehin'i ni	.50	.75
1.03	. I ladust bos., high viscosity, C.I.,	EO	.85
1.0	same basis	.50	.03
.7	742		

١	Π		
ı	lb.	8.00	ı
I	Helilotropin, dmsb. Hemlock of (see Spruce of).	0.00	
	Lieutenna lagues his	.55	
	Heptane, indust., tanks, r.o.b. Beau-	1.07	
	95%, lanks, f.o.b. Houston, Tex	1.18	
	Heptanoic acki, syn., tanks, i.o.b.	.65	
	Heptanoic acid, syn., tanks, f.o.b fb.	.4372	
	Hexahydrophthetic annyonds, tech.	1.42	
	Hexamethylenetetramine, gran. bgs.	.55	
	c.l., t.l., works	.59	
	. CIEST OTHE . C.L. T.L. WORKS NO.	40	

ů.	
	FMICAI
	DDIVEC
	WEEK ENDING SEPT 26, 1986

p-Hydroxydiphenylamine, clms, t.l., f.o.b. works ... ib. 4.10
Hydroxydironelal,
natural, dms. ... ib. 9.40
pure, dms. ... ib. 13.60
extra grade, dms. ... ib. 14.80
syn, dms. ... ib. 9.50
Hydroxyathyl methylcellulose (visc. 5.000 through 45.000 cps.) 60
ib. bags, tl., cl., 30,000 ib.
min., dlvd., zone 1 ... ib. 2.73
Hydroxypropyl methylcellulose, premlum, U.S.P. (visc. 4.000
through 15.000 50 ib. bags, tl., cl., 30,000 ib.
min., dlvd., zone 1 ... ib. 2.87
Hydroxypropyl methylcellulose, U.S.P. (visc. 50 through 100 cps) 50
ib. bags, tl., cl., 30,000 ib.
min., dlvd., zone 1 ... ib. 2.99
Hydroxypropyl methylcellulose (visc. 4,000 through 15.000 cps) 50
ib. bags, tl., cl., 30,000 ib.
min., dlvd., zone 1 ... ib. 2.17
Hydroxypropyl methylcellulose (visc. 4,000 through 15.000 cps) 50
ib. bags, tl., cl., 30,000 ib.
dlvd., zone 1 ... ib. 2.17
Hydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 ib.
bags, tl., cl., 30,000 ib. min., dlvd., zone 1 ... ib. 2.64
Hydroxyquinolline (see Oxyquinoline)
Hypophosphorous add, purl., 50%
dms., cl., works ... ib. 3.15

		v	
ichthammol NF. 200-kilo dims ib. Iminodiacetic acid, 98% min., dms.,	4.25	4.50	-
C.L. 1 1 , works	3.00	_	
Indole, dims	25.50	-	
more, f.o b. works kilo	17.50	22 00	
todine, crude, dms kito	13.50	18 00	
lodochlorhydroxyquin, USP, XVI 50- kilo dms , 100-499 kilos frt.	14.21	14.59	
ald kio.	95.00	45.00	
lodoform, NF. dms., 300-lbs., f.o.b.	35.00	45.00	
works	24.00	_ `	
a-lonone dons	18.20	-	
b-lonone drns	13.10	-	
ipecacroat, whole, bgs	25.00	-	
whole	.55	.60	
toniots, dv. E	2.70	. -	
same basisib.	2.00	2.15	

The Sall

			- ·	
Iron, purif., powd., palis, 10-100-lb			Lake C, red toner. (red 53) bbls.,	
lots		-	Lanolin, anhyd., cosmetic. 400-	lo.
equaldb fron oxide, brown, syn., bgs., c.l., irt			dms works	15.
equaldb. Iron oxide, metallic brown, i.c i., bgs.,		.781/2	works	lb.
frt. equald	13	.15	dms., works	(report)
C f., works	.275	.40	Lard oil, No. 1, dms., c.t., f.o b tanks, same basis	
iron oxide, yellow, ib. syn., bgs., c.i., frt. equald ib.	.18 .63	.71	Lard oil, extra, winter-strained, dm	S.,
Iron oxide, buff, nat., dom, bgs., c.l., t.l., works, fightb.	.75	.80	tanks, same basis	ib33
darkb. other shades, bgs., c.l., frt	.60	-	sis, Chicago	ſb .43
equaldb.	.50	.55	prime, burning, tanks, same b	lb35
Isatoic anhydride, bgs., f.o.b. works lb. Isaamyl alcohol, 95% tanks, frt.	1.40	-	NOTE: 300 Mi. rad. 114c. higher, ex Coast, 3c. higher.	•
alidb. Isoborneol, 100 lb. dms lb.	1.44 7.25	1.48	Lauret leaves, Turkish	b. 2.90 b. 3.85
Isobornyl acetale, dmsib. Isobutyl acetate, solvent grade, tanke,	.80	1.15	Lauric acki, comt., pure bgs., c.l I Lauric aldehyde (aldehyde C-12	b65
frt. alid	.45	.48	dmsi n-Lauryi methacrylate, dms., c.l., t.	b. 7.75
Isobutyl alcohol, lanks, divd	.71 .29	Ξ	works	b. 1.72
Isobutylene, 99%, tenks, 1 o.b. works	.32	~	Lavender flowers, ord	b .65
Isobutyl isobutyrate, tanks, f.o.b. worksb	.4212	_	medium, bis	b 1.10
isobutyi methacrylate, tanks, divd ib. isobutyi phenylacetate, dms ib.	.87 3.10	3.50	Lavender flower oll, NF, French, 40-42%, ester, cns	b. 9.25 1:
isobutyi salicylate, dms	3.45	-	spike, Spanish, dms	ko 15.00 2: b.
Isobutyraldehyde, tech., dms , c.l., divdlb.	.43	_	dms. works	b .46
tanks, divd	.35 No Pric	- Xes	works	b37
tanks, same basis	.75		ship,t pt., f.o.b	o87
frt. collect	.84	-	Lead carbonate. (see Lead white basi Lead chloride, 400-lb. dms., works. II	3.25
tanka, same basis	.75 5 20	_ 5.60	Lead dioxide, tech., powd., 200-lt dms , i l., works	o. 66
soniazid, powd	12.00 1	-	Lead fluoborate, fiq. conc., dms., t.i works, frt. equald it	
sonony/ alcohol, dms., t. l lb. so-octy/ alcohol, tanks, divd lb.	.48	-	Lead metal, divd	1 A
Sophorone, lanks dlydb.	.44 .81	-	f.o.b. works	> .58 ⁄₂
sophthalic acid, 99%, bulk, f.o.b., Jollet, III , min. frt. alid ib.	.46	_	Lead naphthenate liq., 24% Pb. dms	
sophthalonitrile, bgs., t.l., works ib. sopropyl acetate, tenks, divd ib.	2.65 .47	-	frt. alld	
sopropyi alcohol, anhyd., 99%, tanks,		- 1	Li., works	
divdgal refd., 95%, tanks, divdgal.	1.38 1.31	- 1	Lead red, 95% Pb ₃ O ₄ , or less, bgs. c.i works.	. 77
reid., 91%, tanks, divd gal. sopropyl ether, tanks, divd ib.	1.25 .44	- [Lead red, 97% Pb ₃ O ₄ , bgs. c.l.	
crude, tanks, divo	.37	- 1	Lead, red, 98% Pb ₃ O ₄ , bgs., c.l., sam basis.	A
sopropyl myristate, dms., t.l., E lb. laconic acid, reld bgs t.l lb.	1.19	1.50	Lead silicate (see Lead, white, basic s Lead silicochromate, bgs., c.l.	ilicate)
avono acio, reio ogs c.i	1.45	1.48	WORKS II-	35
		1	Lead sulfate (see Lead, blue, basic : basic sulfate)	
_ 1		- 1	Lead, white basic carbonate bgs., c.i	62
		ľ	Lead, white basic, silicate, bys., c.l. same basis	07
		:	Lead, white, basic sulfate, bgs., c.l. same basis.	. 85
acid, paste, dms., works. 100% ba-			ret dms. I.c.I., works	- 38
sis	4.75 5.50	5.60	unbleached non-ret. dms., i.c.i.	. 34
ojoba oli, 55-gal. dms., f.o.b. Arizona producing point gal.	55.00 6	80.00	edible, tech bleached, non-ret, dms.,tl.,works	
ınıpar barry oli, İtalian kilo	47.00		unbleached, non-ret, dms., t.l. same basis. lb	•
			Lemon oil, Argenting	14.00
			Brazil	. 900 0
			italianib Lemongrass oil, indian, dmskild	. 12.50
			and the same of th	119E
•			Guatemalan, dms	11.25 2.25
solin, water washed, fully catched			Guatemalan, drns	0 11.25 0 2.25 0 60.00 90 0 40
baga c.i., f.o.b. Georgia	255.00	-	Gluatemalan, dms. lb dl-Leucine, dms., 1 kilo works. kilo Licorice root, whole, bts. lb gran., bis. lb powd., bis. lb	0 11.25 0 2.25 0 60.00 90 0 .40 0 .70
NF pwd., colloidal, bacteria con- trollad, 50 lb, bags., 5,000 lb.		-	Guatemalan, dms	11.25 1. 2.25 2.25 3. 40 470 495 m or Sodium lign
bage ct., f.o.b. Georgia ton (NF pwd., colloidal, bacteria con- trolled, 50 lb. bags., 5,000 lb. lots	.24	- -	Guatemalan, dms	0 11.25 1 2.25 1 2.25 2 60.00 90 1
bage ct., f.o.b. Georgia		- - -	Guatemalan, dms	2 11.25 2 2.25 3 60.00 90 4 40 5 .70 6 .95 7 m or Sodium lign
bage ct., f.o.b. Georgia ton 2 NF pwd., colloidal, bacteria con- trolled, 50 ib. bags., 5,000 ib. lots	.24 94.00 75.00 73.00		Guatemalan, dms	2 11.25 2.25 5 200 90 6 40 7 70 8 95 m or Sodium lign 1 39 00 45
bage ct., f.o.b. Georgia ton 1 NF pwd., colfoldal, bacteria con- trolled, 50 lb, bage., 5,000 lb, lots	.24 94.00 75.00 73.00 70.00		Guatemalan, dms. bid-Leucine, dms. 1 kilo works kild Licorice root, whole, bis. bigran, bis. bis. bis. bis. bis. bis. bis. bis.	0 11.25 1 2.25 1 60.00 90 1 40 2 .95 1 95 1 39 00 45 3 46.00 50 1 46.00 50
bage ct., f.o.b. Georgiaton. 2 NF pwd., collioldal, bacteria controlled, 50 lb, bags 5,000 lb. lots	.24 94.00 75.00 73.00		Guatemalan, dms	0 11.25 1 2.25 1 60.00 90 1 40 1 .95 1 or Sodium lign 1 39 00 45 1 46.00 57 1 46.00 57 1 60.00
bage ct., f.o.b. Georgia ton 2 NF pwd., colloidal, bacteria con- troiled, 50 ib. bags., 5,000 ib. lots	.24 94.00 75.00 73.00 70.00		Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kili bid-Leucine, dms. 1 kilo works. kili bid-Leucine root, whole, bis. bigran, bis. bib. bib. bib. bib. bib. bib. bib.	0 11.25 1 2.25 1 40 1 70 2 95 1 95 1 0 39 00 45 1 46.00 50 1 46.00 57 1 6.00 1 7.50
bage ct., f.o.b. Georgiaton 2 NF pwdcolfoldal, bacteria controlled, 50 lb. bages5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00		Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kild Licorice root, whole, bts. bigran, bis. bib. gran, bis. bib. bib. bib. bib. bib. bib. bib.	0 11.25 2.25 0 60.00 90 0 40 0 70 0 95 m or Sodium lign 1 39 00 45 1 46.00 50 1 46.00 57 1 69 1 6.00 1 7.50
bage ct., f.o.b. Georgia . ton 2 NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00		Guatemalan, dms. bid d-Leucine, dms., 1 kilo works. kili Licorice root, whole, bis. bi gran., bis. bis. bi gran., bis. bis. bi lignosulfonate (see under Ammoniu fonate). Lime, cherrical, pebble (quicklime) bulk, 50,000 ibs., works, 1.0 b piants. tor lime, chomical, hydrated, bulk, samt basis. tor bgs., same basis. tor bgs., same basis. tor Lime, Nir., purif., 100-lb. dms. bis Lime oil, dist., Maxican, dms. bi Haltian, dist., dms. bib expressed, dms. bi Lime salts (see Calcium). d-Umonene, dms. kit Linalool ex bols de rose oil, dms. bi syn., 98-100% dms., 1.0 b. works. bi Linalool oxide, syn., 55-gel, dm., bi Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil Linalool oxide, syn., 55-gel, dm., bil	11.25 2.25 60.00 90 40 70 95 m or Sodium lignors 39 00 45 1 46.00 50 1 54.00 57 60 1 6.00 1 7.50 1 7.75
bage ct., f.o.b. Georgiaton 2 NF pwdcolfoldal, bacteria controlled, 50 lb. bages5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25	- - - - - - - - - -	Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kild Licorice root, whole, bts. bigran, bis. bibgran, bis. bibgran, bis. bibgran, bis. biblibgran, bi	2 11.25 2 2.25 3 60.00 90 4 40 570 695 695 695 795 8 .
bage ct., f.o.b. Georgia . ton 2 NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kild Licorice root, whole, bts. bid gran, bis. bid powd, bis. bid bid bid bid bid bid bid bid bid bid	11.25 2.25 60.00 90 40 70 85 6 60.00 10 10 39 00 45 11 46.00 50 12 600 57 600 57 600 17.50 17.50 18.00 21 18.00 21 18.00 21
bage ct., f.o.b. Georgia . ton 2 NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, drns. bid d-Leucine, dms., 1 kilo works. kili Licorice root, whole, bis. bi gran, bis. bi Jense, bis. bi Lignosulfonate (see under Ammoniu fonate). Lime, chemical, pebble (quicklime) bulk, 50,000 lbs., works, 1.0.b plants. tor lime, ohomical, hydrated, bulk, samt basis. tor basis. tor basis. tor basis. tor basis. tor Lime, Nir., purif., 100-lb. dms. lb Lime oil, dist., Maxican, dms. lb Lime oil, dist., Maxican, dms. lb Lime oil, dst., Maxican, dms. lb Lime osi, dist., dms. lb Lime salts (see Calcium). d-Umonene, dms. kild Linalool ex bols de rose oil, dms. lb syn., 98-100% drns., f.o.b. works. lb Linalyi cactate ex bols de rose oil, 90 92%, dms. lb. Linalyi cinnamate, syn., 55-gal dms. lb Linalyi cinnamate, syn., 55-gal dms. lb Linalyi cinnamate, syn., 55-gal dms. lb Linalyi cinnamate, syn., 55-gal dms. lb Linalyi cinnamate, syn., 55-gal dms.	11.25 2.25 60.00 90 40 70 95 m or Sodium lignors 39 00 45 1 46.00 50 1 46.00 57 600 1 7.50 1 7.75 1 8.00 21 310 310 310 310 310 310 310 31
bage ct., f.o.b. Georgia . ton 2 NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, dms. bid d-leucine, dms. 1 kilo works. kild Licorice root, whole, bis. bi gran, bis. bid gran, bis. bid gran, bis. bid gran, bis. bid gran, bis. bid gran, bis. bid gran, bis. bid lignosulfonate (see under Ammoniu fonate). Lime, chemical, pebble (quicklime) buk, 60,000 ibs., works, 1.0 b plants. tor Lime, chomical, hydrated, bulk, samt basis. tor bgs, same basis. tor Lime, Nir., purif., 100-Rb. dms. bid Lime oli, dist., Mexican, dms. bid Lime oli, dist., Mexican, dms. bid Lime oli, dist., dms. bid Lime selts (see Calcium). d-Limonene, dms. kild Linalool ex bols de rose oli, dms. bid Linalool oxide, syn., 55-qal. dms. bid Linalyl cinnamate, syn., 55-gal. Linalyl isobutyrate, syn., 55-gal.	11.25 2.25 3.0000 3.00000 3.00000 3.000000 3.000000 3.00000000 3.000000000 3.0000000000
bage ct., f.o.b. Georgia . ton 2 NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kild Licorice root, whole, bis. bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran, bid gran,	11.25 2.25 60.00 60.00 90 40 95 m or Sodium lignors 39 00 45 10 10 10 10 10 10 10 10 10 10
bags ct., f.o.b. Georgia . ton a profiled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, dms. bid d-Leucine, dms., 1 kilo works. kild Licorice root, whole, bts. bid gran, bts. bid powd, bts. bid upowd, bid upowd, bts. b	11.25 2.25 60.00 90 40 70 95 m or Sodium lignors 39 00 45 1 46.00 50 64.00 57 69 1 7.50 1 7.50 2 93 7 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 7.75 1 8.00 1 8.00 1 7.75 1 8.00 1 8.00 1 8.00 1 7.75 1 8.00 1 8.00 1 8.00 1 8.00 1 7.75 1 8.00 1 8.
bags ct., f.o.b. Georgia ton NF pwd., colfoldal, bacteria con- trolled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96		Guatemalan, dms. bid di-teucine, dms., 1 kilo works. kild Licorice root, whole, bts. bid gran, bts. bid gran, bts. bid powd, bts. bid bid bid bid bid bid bid bid bid bid	11.25 2.25 60.00 90 40 70 95 m or Sodium lignors 39 00 45 46.00 57 600 17.50 2.33 7.75 18.00 21 3.10 46.00 21 3.10 46.00 21 3.10 46.00 21 46.00 21
bags ct., f.o.b. Georgia . ton a NF pwd., collolad, bacteria controlled, 50 lb, bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96 .50		Guatemalan, dms. bid-Leucine, dms. 1 kilo works. kild Licorice root, whole, bis. bigran, bis. bib gran, bib, 60,000 lbs. works, f.o.b plants. tor bigs. same basis. tor bigs. bib expressed, dms. bib expressed, dms. bib expressed, dms. bib gran, 98-100% dms., f.o.b works. bib Linalyi acetate ex bots de rose oil, 90 92%, dms. bib gran, 98-100%, dms., f.o.b works. bib Linalyi cinnamate, syn., 55-gal dms. bib Linalyi laobutyrate, syn., 55-gal dms. bib Linalyi propionate, syn., 55-gal dms. bib Linalyi prop	11.25 2.25 60.00 90 40 70 95 m or Sodium lignors 39 00 45 1 46.00 50 1 46.00 57 600 17.50 18.00 21 3.10 8.00 17.50 18.00 21 3.10 8.00 17.75 8.00 18.00 17.75 18.00 21 18.00 21 18.00 65 18.00
bags ct., f.o.b. Georgia . ton a NF pwd., colfoldal, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 75.00 70.00 58.00 182.00 60.00 2.25 1.96 .50		Guatemalan, dms. bid d-Leucine, dms., 1 kilo works. kild Licorice root, whole, bts. bid gran, bis. bid Licorice root, whole, bts. bid Lignosulfonate (see under Ammonium fonate). Lime, chemical, pebble (quicklime) bulk, 60,000 ibs., works, 1.o. b plants. tor Lime, chomical, hydrated, bulk, samt basis. bor bgs., same basis. tor Lime, Nir., purif., 100-Rb. dms. bid Lime oil, dist., Maxican, dms. bid Lime oil, dist., Maxican, dms. bid Lime oil, dist., Maxican, dms. bid Lime oil, dist., Maxican, dms. bid Lime oil, dist., Maxican, dms. bid Lime oil, dist., Maxican, dms. bid Lime oil oits, dms. bid Line salts (see Calcium). d-Limonene, dms. bid Linalyol oxide, syn., 55-qal, dm. bid Linalyol accitate ax bois de rose oil, 90 92%, dms. bid syn., 98-100%, dms., f.o.b, works. bid Linalyol cinnamate, syn., 55-qal, dms. Linalyol isobutyrate, syn., 55-qal, dms. Linalyol isobutyrate, syn., 55-qal, dms. Linalyol isobutyrate, syn., 55-qal, dms. Linalyol granding, dms. Linalyol propionate, syn., 55-qal, dms.	11.25 2.25 60.00 90 40 70 95 m or Sodium lignor 39 00 45 39 00 45 30 46.00 57 6.00 8.00 17.50 57 6.00 21 3.10 21 3.10 21 3.10 21 3.10 21 3.10 21 3.10 6.50 6
bags ct., f.o.b. Georgia . ton a NF pwd., collolad, bacteria controlled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96 .50		Guatemalan, drns. bid d-Leucine, dms., 1 kilo works. kild Licorice root, whole, bts. bid gran, bis. bid powd, bis. bid lignosulionate (see under Ammoniu fonate). Lime, chemical, pebble (quicklime) bulk, 50,000 lbs., works, f.o.b piants. tor Lime, ohomical, hydrated, bulk, samu basts. bor bgs., same basts. tor Lime, NF, purif., 100-fb. dms. bid Lime, NF, purif., 100-fb. dms. bid Haltian, dist., dms. bid Haltian, dist., dms. bid Haltian, dist., dms. bid Lime bots de rose oil, dms. bid syn., 98-100% drns. bid. bid syn., 98-100% drns. f.o.b. works. bid Linalyol acetate ex bots de rose oil, 90 92%, dms. bid Linalyi benzate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi sobutyrate, syn., 55-gal, dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal linalyi propionate, syn., 55-gal	11.25 2.25 60.00 90 40 70 85 m or Sodium ligates 39 00 45 1 46.00 57 60 1 46.00 57 60 1 7.50 1 7.50 1 8.00 1 7.75 1 8.00 1 7.90 1 8.00 1 7.90 1 8.00 1 7.90 1 8.00 1 8.
bags ct., f.o.b. Georgia ton NF pwd., colloidal, bacteria con- trolled, 50 lb. bags., 5,000 lb. lots	.24 94.00 75.00 75.00 70.00 58.00 182.00 60.00 2.25 1.96 .50	-	Guatemalan, dms. bid d-leucine, dms. 1 kilo works. kild Licorice root, whole, bis. bi gran, bis. bid gran, bis. bid gran, bis. bib Jignosulfonate (see under Ammoniu fonate). Lime, chemical, pebble (quicklime) buk, 60,000 ibs., works, 1.0 b plants. tor Lime, ohomical, hydrated, bulk, samt basis. tor bgs., same basis. tor Lime, Nir., purif., 100-Rb. dms. bid Lime oli, dist., Mexican, dms. bid Lime oli, dist., Mexican, dms. bid Lime oli, dist., Mexican, dms. bid Lime oli, dist., Mexican, dms. bid Lime salts (see Calcium). d-Limonene, dms. kild Linalool ex bols de rose oil, dms. bid syn., 98-100% dms., 1.0.b. works. bid Linalool oxide, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal dms. bid Linalyi cinnamate, syn., 55-gal dms. bid Linalyi lisobutyrate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dwd. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linaen (lose Oils, Fats & Waxes Linseed med (see Oils, Fats & Waxes Linseed oil fatty ackid. dist., dms. bid Linseed oil fatty ackid. dist., dms. bid Linseed oil fatty ackid. dist., dms. bid Linseed oil fatty ackid. dist., dms. bid Linseed oil fatty ackid. dist., dms. bid Linseed com lineary li	11.25 2.25 60.00 90 40 70 85 m or Sodium lignors 39 00 45 1 46.00 50 64.00 57 6.00 8.00 17.50 6.00 8.00 17.50 18.00 21 8.00 17.50 18.00 21 8.00 17.75 8.00 17.75 18.00 21 8.00 17.75 8.00 18.00 19.00 10.00
bags ct., f.o.b. Georgia . ton a NF pwd., colfoldal, bacteria controlled, 50 lb, bags., 5,000 lb. lots	.24 94.00 75.00 73.00 70.00 58.00 182.00 60.00 2.25 1.96 .50	-	Guatemalan, drns. bid d-Leucine, dms., 1 kilo works. kild Licorice root, whole, bts. bid gran, bis. bid powd, bis. bid lignosulionate (see under Ammoniu fonate). Lime, chemical, pebble (quicklime) bulk, 50,000 lbs., works, f.o.b piants. tor Lime, ohomical, hydrated, bulk, samu basts. bor bgs., same basts. tor Lime, NF, purif., 100-fb. dms. bid Lime, NF, purif., 100-fb. dms. bid Haltian, dist., dms. bid Haltian, dist., dms. bid Haltian, dist., dms. bid Lime bots de rose oil, dms. bid syn., 98-100% drns. bid. bid syn., 98-100% drns. f.o.b. works. bid Linalyol acetate ex bots de rose oil, 90 92%, dms. bid Linalyi benzate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi cinnamate, syn., 55-gal, dms. bid Linalyi sobutyrate, syn., 55-gal, dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal dms. bid Linalyi propionate, syn., 55-gal linalyi propionate, syn., 55-gal	11.25 2.25 3.000 40 40 70 85 60 95 60 10 10 10 10 10 10 10 10 10 1

					4
t. o. 5.70	-	Lithium hydrida, c I., t I, divd 10,000 or more ib	BO		
).). 1.18	1 25	Lithium hydroxide, inonohydrate, dois . c l . t l . divd		•	1
i. 1. 1.15	_	Lithium hypochlorile, c 1, 11, works lb Lithium metal, 1,000-lb, lots or more.	1.93 1.07	:	
).). 1.08	113	divd	22.70		
report)		lots lb Lithium stearate, bgs . c l . frt alld . lb	3 25	_	
. 28		Lithium sulfate, anhydrous, 11 divd ib Lithol red tonor, barium, dms . tri.	1 01 3.09	:	
41	-	BIIGb	3.27	_	
33 - 43	-	Lithol rubine toner (red 57), resignative	3.50	-	
•	-	dms., frt. alid	5.60 6.00	675	
35 opt Texas, 2d	and West	2.4-Luildine dins .t l., frt. equald kilo Lycopodium, 50-lb dins b.	5.75 8 00	10:00	
2.90	-	1-Lysing monohydrochloride, feed grade, 10,000 lbs divd lb	1.35	1 40	
. 3.85 65	.71				
7.75	-				
1.72	-				ı
. 4.00 .65	.75	AAS			
. 80 1.10	.90 1.19	Maco, East Indian, siftings,lb	4.95	6 00	
0.25	13 50	Slauw #2 Ib. Magnesia tech light, neoprene	5.60	5.75	
15.00	22.00	grade. bys., c1, t1., works lb. Magnosia, syn., tech, chemical-	.75	81	
.46	-	grado, bulk, cl. () works ton	330 00		
.37	-	bags, c l., t l. same basis ton deadburned, bulk, same ba-	365.00	-	
.87 carbonato).	-	lon bgs , same basis ton	392.00 409.00	-	
3.25	-	Magnesia, nat , tech , heavy, 85%, 150 mesh , bulk, c.l., tl., f.o b	-va.uu	-	
66	70	Nev. ton 90%, 325 mesh, same basis ton	232.00	-	
.65 18	.1812	Magnesium bromide, 80-lb, dms, hex- altydrate	265 00 2 50	-	
.581/2	-	Magnesium carbonate, light, tech. bgs cl. 11, works, fit	200 د	-	
.571/2	-	oquald	.73 74	76	
.93	-	USP, hoavy, bgs., cl., same basisb. Magnesium chloride, anhyd., 92%.	.74 83	.80 	
321/2	-	flake or peoble dins , c.l., works lb	1234	.15	
.37	_	Magnesium chloride, hydrous, 99%.		.13	
.371/2	-	flake.bgs.cl.works b Magnesium gluconate, 100-lb dms. t.o.b.works,E	.141/2	•	
.3712	401/-	Magnesium hydroxide, NF, powd.	4.25	-	
cate).	.401/2	dms, c.l, tl, works frt equaldb.	.78	-	
.35	-	Magnesium lauryl sulfate, funks, I.o b works	22	.2612	
ifate and Le	eta, wiite,	Magnesium metal, 99.8° n, inquis, 10.000-lb, lots or more fieb.	. 50		
.62	-	Freeport, Fex	1 53 1 29	1.33	
.87	-	Magnesium mirate, tech., flake. 250- lb dms , t i , works lb	32	-	
.85	-	Magnesium oxido, USP, light, bgs . c l . works, frt equald lb	1.65	-	
.36	-	heavy, drns ic Lisamo basis ib Magnesium oxidu, techi (see Magnesia).	1.54	-	
.34	-	Magnesium phosphate, tribasic, tech. 60-lb, bps , f o.b. , lb	1 00	-	
.28	-	Magnesium silicate (see Talc.) Magnesium silicofluorido, bgs., c l., t.l.		4000	
.26	-	worksib. Magnosium stearate, bulk, 1 l ib.	1645 95	.1800 1.38	
14.00 6.50	7.00	Magnesium sulfate 10% Mg. (epsom salts), tech. bgs., 1.1.,			
9.00 12.50	9.35	works	14 13	Ξ	
11.25 2.25		USP, cryst , bgs., same basis . ib. USP, cryst., bulk, some basis . ib.	.131/2 141/2	Ξ	
60.00 .40	90.00 .50	Magnosium sulfato, 17% Mg. (syn- thotic monohydrato), toch			
.70 .95	.90	bgs. t.l., works lbs. CP, same basis lbs.	.80 1.25	-	
or Sodium	lignin sul-	Magnosium sulfate, anhydrous, CP bys., t.l., works lbs	1.75	-	
		Magnesium sulfato trihydrate, tech.,	.45	-	
39 00	45.00	bgs., t.i., works	.38		
46.00 54.00	80.00 57.00	USP, micronized powd., dms., 375-ib.lotsib.	.83	-	
6.00	-	Malathion, tech., dms., t.l., works,lb.	1.62	-	
8.00 17.50	-	Malolo acid, cryst., powd., drums, 100 kilos, f.o.l)kilos drums, tons, f.o.bkilos	3.20 2.80	Ξ	
.70	.85	Malolo anhydride, bys., t i., works, fri equaldb	.55	.69	
6.35 2.93	-	tanks, works, frt. oquald	.53	.84	
7.75	-	Mandarin oli (sco Tengerine oli, Italian).	.81	.07	
18.00 3.10	21.00	Mandelic acid, dms., 1,000 kilo loiskilo	8.00	10.00	
8.00 50.85	-	Manganese acotate, dihydrate, dms., divdb.	.43%	48	
69.85 7.75	8.50	Manganese borate printing ink drier.ib.	.48 1.68	1.60 .99	
6.50	6.55	Manganese borate, tech., dmsib. Manganese carbonate, chemical	,80		
13.10	- .	grade, 46% Mn. bgs., 20,000- lb. lots or more, works b.	1.05	-	
6.50	-	Manganesa chloride, anhyd., dma., 20.000-lb, lots or more ib.	.61	-	
7.90		Manganese dioxide, nat., African, grd., 74%-76% MnO ₂ , 100-lb, bgs.,	onn nh	:	
.78 .90	.85 1.15	.l., works ton 84% MnO ₂ , same basis ton	200.00 250.00	380.00	
lärket report) rket report)		Manganese dioxide, syn., cryst., bal- tery grade, 90%-92% MnO ₂ .	-30	87%	
.60 .53	.67 .62	190-ib. bgs., c.l., works ib. chemical, ferrite grade, same ba-	.70	6 1	
.361/2	.60	sisb. Manganase gluconate, FCC grade.	49		
6.27	_	Manganese hydrate dris., divd lb.	3.60 .35	38	
4.00 1.50	-	Manganese hypophosphile, NF, dms. lb. Manganese matal, electrolytic, No. 1	8.75		
1.50 3,32		Chip, Duik, C.I., Works,, ID.	3314		1
2,32 2,94 4,90		dms., c.f., works. Manganese naphthenate, liq., 6% Mn, dins., divd.	8435 67		
7.00		dina. divd		经数 点	. ;

T					البائسان ومواهد سرم وإسماعه
	esa resinato, fusod, 31.20 a Min] N	delity) violet tener, tungstated, PTA,
		345 12		- 1 4	di siecd onns, sidd - AMethylone diamiline (p.p-di
70	A DIR TO WILL THE COLUMN CITY OF IT			- L	aminodiphonyl mothane) crudo, des , 11 , 1.0 b lb.
1 ₽2	Wild Co., Shahan cars, Civo			- [.	parafi, flako, samo basis ib.
	EOMISS. London	90 00 95 00	-	- 1	Methylene di-p-phenylone di-isocyanate 4.4, di-isocyanate).
12	hopper cars, same of Mn. grun .	330 00	_	- 1	Methylene chlaride, tanks, 4,000 gal min , consumers, dvd lb.
•	us and an inter-				Muthylpentanodiol (see Hexylene glycol
1/3	m po and dris 1	60	-		Mothylphenylpryszolone (see 1- Pheny 5).
n.	tol, comi., powo., and lb works lb	3 02 86	.89	- 1	a-Methylstyrene, f.o.b. Shipping pt lb. p-Methylnaphthalene, bulk, works gal.
97	am Franch ID	.61	82	Į	Muthylthionine chloride (see Methylene
l unii	160 2-Mercapitorers and distribution	io)		- {	Mica. ifry-grd , joint cement, plastic, 50 lb., bgs , c I , works lb.
187	Seg Melicapitodo A 4 - di ISOCV	anato)		ł	dry-grd , rooling, 20 to 80 mesh. works
199	nine bys. Lucyke ID	51' .	591 58	,	paint or lacq, wet-grd., 325-mesh.
N	k.c.l.(1, same basis li) hmelormeidehyde rasin, g p . (i ii)	50		1	ugs , c t , f o b , works lb . rubbor , bys , c l , f o b , works lb .
140	fit eld	55	.60	ì	walloager, bos., c.l., f.o.b. Works. ID.
	m man ba	461.	-	1	Microcrystalino wax, petroleum, coat- ing grades, FDA, tanks.
	aden oil, crude, tanks, works An	11	-	1	worksb laminating grades, FDA, tanks
6	iporte, same basis lb ho, nat., USP, Brazilian large and	.12	-		worksb Mineral cil, white, 50-65 vis., USP ligh
N.	weight Clarifing Short co.	6 75	7 50	,	18/1KS.(81V
1.	but. ib.	9.00	-		65-75 vis., tanks, rely
- 17	works, frt. alld	1.25	1.55	, '	145-155 vis., tanks, refy ga USP 180-190 vis., tanks, refy ga
W	DDIIIDBIDZVI (ISUIIIDB I.I	1 33	1.60	3	200-210 vis., tanks, refy 98
١.	dris., works, irt. slid lb arc chloride NF, gran., powd.				340-350 vis., tanks, refy ga Mineral spirits, petroleum, odorles
	100-tb dms., f.o b. workslb. curc oxide, red. puril , 100-lb.	6 50		_	[tanks, New Jersey gs
1	Arrie Lin D. WORKS	7 00	7.2	5	Houston Tex
ł	uch.100-lb. dms., same ba-	5.50	7.0	0	tanks, New Jersey
Į	yelow, NF, 100-ID. Qms., Salito Da. Ib.	7.00	7.2	5	Molybdate orange, bbls
•	sa	5.50	7 5	0	1 99 8%, OMS., WUK8
۹,					Molybdenum trioxide, CP, uma works, 24,000 lbs. or more.
4 4	rury ammoniated (see White preci				tech., chemical, dma., 24,000 lbs. more, basis.
- Įi	Micrylic acid, glacial, 99%, dms. II., frt. equald		-		rech metellurgical, drns. 98M8 0asis
Į	tanka, works, 1ft, equilitio	,,	-		Molybdic acid (See Ammonium Clinic
	Websmpheternine hydrochtoride drisib	. 12.00	16.0	30	grade, min. 13% N. 52%
	Mehamphetamine nydrochionous	4.50	7.0	00	works
- [Manol, syn , tenks, 4,000 gars	:			Monoammonium phosphata, tec bgs., c.i., t.i., works.
-	Lo.b. producing point, Gui Coast). 57	2.	711/2	equald
- 1	kteramina (see Hexamethylenetet Bitmine hydroxyanalogue, dr)	h .	_		46 100
- 1	86% activity t.l., frt. alld it iquid, 88% activity, 1.l. fr)0	6	-	Mono-tert-butyl-m-cresor buk. I.I.
1	alid		8 .	-	Monochloroscetic acid, purif. (see 6 Monochlorobenzene, tanks, f.o.b.
- 1	Whomas (see Recemethionine) maychlor, 50% wettable powder		e	_	Monoethanolaming, tanks, irt. i
1	dealers, dms	١,	_	-	E
	divd E	b. 94	0	-	frt. prepaid, 100% basis anhyd., tanks, same basis
J	ret. oms., i.c.i., same b	a	10	_	Monoisopropanolarrina, ams., c.s.
}	क्षेत्र भागा acetoacetate, East, div	d.		_	alid. E. tanks, same basis
	bulk		35 50	_	Monoisopropylamine, anhyd., d
ĺ	htyfalcohol (see Mothanol) htyfamyl alcohol, tenks, divd	_	55	_	Looks some hasis
	high-amyl ketone, tks., dlvd	ib.	54V:	-	Monomethylamine, anhyd., tanks. tained basis frt. equald.
ŀ	my anthranilate, tech., dm	Ю. 1.	44	2.65	25% soln., lanks, frt. alid. 1 basis
	क्षेत्र(benzoate, dms., t.l. ३९%, perf. grade, dms., t.l.	ib. 1.	25 65	=	40-60% soln., tanks, irt. ec 100% basis
-	by bromide, dist., tanks, 140,0 lbs.min.,irt.alid.	XQO	58%	-	i Managatassium giutamate, oma-
1	************************************	SC.			Monosodium glutamate, 60-lb.
- 1	400 through 4,000 cps) 50 bags, il., cl., 30,000 lb., n	۳n, _			c.l., t.l., divd 100-lb. drums, c.l., t.l., divd.
	divo, zone 1.	.16. 2 isc.	.73	-	LANGE CONTRACTION DISCOSCIDE (880 CO)
- 1	15 cps) 50 lb. bags, tl., 30,000 lbs., divd., zone 1.	CI.,	.65	_	Montan wax, crude, imp., Germa dom., Calif., bgs., c.l., t.l.,
- 1	wayicellulose, (visc. 400 thro	սըի			shipt. pt
ŀ	4,000 cps) 60 lb, 0gs., 1t.	, Cl., . lb. 2	2.24	-	Morphine alkeloid, Nr. 26 k lots
d	le hydratulosa (visc. 15 to 25 cps lb. bags, tl., cl., 30,000	i) 50			
}	min., divd., zono 1	lb. 3	2.62	-	tanks, m. alic., E.
Ì	LD.D. WAYN	. K).	.26	-	Musk. syn., ambrette, 2040. tals
ļ	trinyi chiorotorm (see 1.1.1-Trici hillyi can amate, dms.	In.	4.00	-	
ŀ	lenylethylketorin tarike dlyd F	10. ≅lb.	6.00 .235	-	Mustard seed Brown No. 1
I	Vernyl eugenol, 28-lb, cns.	ın	3.55	3.80	Canadian No. 1 Yellow
I	TYCH KH.	ID.	.41	-	Myrcia oii (see Bay oii). Myristic add, comi., pure, t.i., b
Ĭ	WCh. Lanks works	ID.	.29 .31	-	
- 1	Willy haptenone ours down	8. UD. 1	14.50 7.30	-	Myrtatics oil (see Nutmeg oil). Myrrh gum, bgs.
5	Hethy o-hydrovytenzoeto (see 1	ID. 4	45 00	-	
I			7.30	9.4	O : A .
	E METONE, LEUKS	OIVO.	.61	-	
	Methyl Ecopytyl Carbinol (see Met	ihyl amyl 8 vd. lib.	وږ.	_	
- [dvd zone 2 (Calif.)		.38	-	
	Methyliscourage of Co.	ip.	.41	10.4	Nephtha, high solvency (see S
ጎ	Milly molthography 25-ID, C18	10.	6,60 .62	- 10.4	Naphina, peuroscum, cooker
. }	Vethyl naphthyl ketone, o	rysl.,	14.00	_	MBM Jelsey and 1/2
.	Methylparaban, USP, 500 kilo	grams,			Houston, Tex Naphthelene, crude, dom., 78
•	tech FOO sub-	KNO	10.14 9.70		
	My G 1901' 1902' 90.2' 91	NB., 11T.	1.65	_	Naphthalene, phthalic are
	HMethyl 2-Dymperione target	P.	3.60	5.	40 I Nasakalana Datibibuli
	piani.	, . <u>l</u> b.	1.32	•	a Liverana cord halls, flak
			1.40	i: : :	BRIDIS
·:	Methyl saliculate, NE 1000 p	dona.	5.50		Naphthenic scid, crude, bulk refined, 220 scid, same ba
:	Hellful utcles to an a service	· · · · ·	1.79 dde)		Nephthenic ackl, crude, bulk, refined, 220 sold, same ba s-Nephthel, ground, dris., U
!.	I POST CONTRIBUTION OF THE PROPERTY OF THE PRO	O. PRIA.		ş ş.	a-Nephrinol, tech, fisite, 80-to b-Nephrinol, tech, fisite, 80-to works
	bbis., dwd, E. of Rock	164. ID	3.25	<i>(</i>	
$\alpha : \mathbb{N}$	a : 1 :	4.1 1 M	1.1		

			الاستهال في المناسبة في المناس
thyl violet toner, tungstated, PTA,		[Naphtholarylide red toner deep
this samo basis	4.70 5.	.20	shades, bbls
-Methylone diamiline (p.p-di- aminodiphonyl mothane)		l	2-Naphthol-3,6-disulfonic acid, disodium salt (see R salt).
crudo, dais , 11, f.o b lb.	1.75	-	1-Naphthol-5-suilonic acid (see L. acid) 1-Naphthol-5-suifonic 8-amino acid (see S acid).
nırılı, ilako, samo basis. Hylene di-p-phenylone di-isocyanate (s	2.25 ee diphenykny	- ethane	Nach thylamine sulfonic mixed acid (see Cleve's acid).
4.4di-isocyanate).			a-Naphthylamine, tanks, 1.0.b. works
thylene chloride, tanks, 4,000 gal min , consumers, divd lb.	.35	_	1-Nachthylamine-5-sulfonic acid (see Laurent's acid).
sthylpentanodiol (see Hexylene divcol).			2-Naphitrylamine-4,8 disulfonic scid (see Cassella scid). 2-Naphitrylamine-1-sulfonic acid (see Tobias acid).
hylphonylpryszolone (see 1- Phenyl-3	i-methyl-pyraz	zolon a -	Neatsfoot oil, 20°F, t.l., f.o.b. works
5). Methylstyrene, f.o.b. shipping pt ib.	.44	-	dmslb52 - tanks, f.o.b. workslb47 -
Mothylnaphthalene, bulk, works.gal.	1.38	-	30°F. L.I., f.o.b. works ib
uthylthionine chloride (see Methylene bl ica. ifry-grd., joint cement, plastic, 50	nai.		tanks, f.o.b. works lb
in . bas . c i . warks ib.	.071/2	-	1 tanke fold works ID. 39 -
dry-grd , rooling, 20 to 80 mesh. works	.07	_	Delivered prices apply on shipments within 300-mile rad Philadelphia, Pa.; other areas, 1 kc. higher, Texa
paint or lacq, wet-grd., 325-mesh.	460:		I higher and West Coast 3c. higher.
tugs , c t , f o b , works lb. rubbor , bys , c l , f o b , works lb.	.1634 .1634	_	Neomycin sulfate, USP, non-sterile,
walloaper, bos., c.l., (.o.b. works. lb.	.22	-	dms., 50-kilo. lots, activity ba- sis, dvdkilo. 75.00
licrocrystalling wax, petroleum, coat-			Neopentyl glycol, slurry, 90%, , c.l., t.l., dvd
ing grades, FDA, tanks, worksb.	.381/2	.4672	powder, liake, bgs. t.l., divd lb
Jamineting grades, FDA, tanks,	.381/2	.48	L Nerol lect. time
worksib. Alineral cil, while, 50-65 vis., USP light	.0072	0	perf. grade, dms
tanks.raivger.	2.38	_	Nerolidol syn. 55-dal. dms ID. 1-09
65-75 vis., tanks, rely gal. 80-90 vis., tanks, rely gal.	2.42 2.45	Ξ	Neroin, Bromatin kilo 7.22 Niacinamida, USP, I.I. dms. kilo. 8.00
145-155 vis., tanks, refy gai.	2.53	-	Niecin NF, dos., 6,000 kijos or more,
ISP 180-190 vis., tanks, refy Qal.	2.54 2.56	-	i divid Kiko ribu
200-210 vis., tanks, refy gal. 340-350 vis., tanks, refy gal.	2.65	-	feed-grade, 98-99.5%, bgs., same basiskilo. 5.10
Mineral spirits, petroleum, cooriess,	1.83	1.88	Niekal scatela dins 5 000-106, to 1.1
tanks, New Jersey gal. Houston, Tex gal.	1.78	1.79	Nickel carbonate, dms. bgs. 5,000-
Mineral Anirits, Delroleum, regular,	4.44	1.49	I the total offer
tanks, New Jersey gal. Houston, Tex gal.	1.41 1.41	1.43	Nickel chloride, bgs., 10,000-lbs. to t.l., dvd. E
Molutriate crance, DDIS	1.52	1.95	1 Mickel fluchorate, Ilia, CORC., GITS., T.I.,
Molubdenum metat, com,t., powo.,	13.50	_	divd E
99.8%, dms., warkslb. Molybdenum trioxide, CP, dms	_		works
works 24 000 lbs. or more.to.	J.2J	-	h Nickal pileato dinte 1979. T.L. UIVO.
tech., chemical, dms., 24,000 lbs. or more, basis	2.65	2.85	Nickel ovide, 75%-78% M. dms., 500-
each metalluraical, dms. 98M8 0858-10	. 4.00	2.85	I IN INTRA LOCAL WORKS
Molybdic acid (See Ammonium Dimoly Monoammonium phosphate, fart	(Crate)		Nickel sulfate, bgs., t.l., dlvd. E ib
ovada min. 13% N. 04% ⊏			I kusakaamida lega Nipringityowi.
бык, с.І., І.О.В. На		_	Nitric ecid, 36° Be., 36°Be, 40°Be, 42°Be, tanks, c.l., works NF,
worksto Monoammonlum phosphate, tech			100% basis ton 183.00
bas al. t.l., works, ir	l.	_	94½% to 98% HNO ₃ , tanks, works, 100% basis ton 280.00
equald	1.		o Nationalilos fisks, ditis., Li.
ale 100 lO	3. 03.60	Ξ	works
Mono-tert-butyl-m-cresol, bulk, t.i. If Monobutylamine, bulk, divd		1 00	molien tech . WORKS
Monorhiorogopiic acid, Duni, 1988 VI	Horoacetic aci h42Vz	d. mono).	o-Nitroanline, orange toner, bgs
Monochlorobenzene tanks (o.bi Monoethanolamino, tanks, irt. ali	U	'	n Autropolina dma. c.l., t.l., 30,000 lb.
E	D40	.46	min., works ib. 1.63 o-Nitrosnisole, 100-kilo lots kilo 8.75
Monoethylamine, 70% aqueous tank (rt. prepaid, 100% basis.	8 ,	-	I Militabanzana tanka I.O.D
antrud tanks, same basis	DDE	-	o-Nitrochlorobenzene, dms., t.l., c.l., lb. 82
Monolsopropanolamine, dms., c.l., f alld. E.	η,	-	tooks come heals
terska sama basis	(D00	-	2-Niro-p-cresol, tech., dms., t.i., it.
Monoisopropylamine, anhyd., dm c l., iri prepaid	3	_	Latterpolitica tente divo. E
tonks same basis	ID10	-	Nitrogen solutions, direct application,
I Magamathulaming, annvo., izi ika, u		/2 -	works Unit-ton. 1.20
tained basis frt. equald 25% ach., tanks, frt. alid. 10	0%		direct application. 19-32% N
hoele	n	-	L AUG GOWROO SILICIOS, DIOC-
40-60% soin., tanks, irt. equal 100% basis.	. KD	V2 -	Chieses unit ton. 4.10
h Managaratassium (ilutamata, CITIS-, 3	190	_	LIGHTE, Original partitud NPG UIUS 31, PC VIIII C.P.
b. or more, rrt. and	MS. 13.00	_	producer, s works, Chicago.
1 6 11 AMA	. 10.		
Monagorium phosphate (see Sodi	ımphosphate	, monob <u>a</u>	slc). [ville, Wisc
		0.	expanded, bulk, c.l., per unit-ton N,
dom., Calif., bgs., c.l., t.l., f. shipt. pt		_	Libernathana drys. tl. dvd. E lb. 2.37
			o-Nitrophanol, dms., 1.o.b. Works., 1.b.
Morphine alkaloid, NF, 26 k lote Morphine sulfate, USP, 25 k lote	Mary 14 14 15	í -	p-Nitrophenol. dms., c.l., (.o.b. works
l Marrohalisa ding. C.L. III. EKI E	. 10.		a Number of Tanks, IT, NR. C
tanks, Irl. alid., E Muriatic acid (see Hydrochloric acid	d).		m-Nitrotoluena, tech, calla f.o.b
			tanks, same dass
Musk. syn., kelono, ums.	ib. 3.60		p-Nitrotoluene, tech. dms., c.l., worksb83
Musk, syn., xylol, dms. Mustard oil, syn. (see Allyl isothioc	18 cm : cm c ~ 1.		tanka wated
Mustard seed, Brown No. 1 Canadian No. 1 Yellow			Nonylphanol, tenks, f.o.b. E. of Rock- les, min. frt. elkl
Orienial NO. 1 DDS	, ib. 2	5 -	Norephedrine hydrochlonde (888 Prient) phops
		0 -	drochloride) Nutmeg oil, dist., East Indian, NF., kilo 27.00
Myristic acid, comi., pure, car os			dris
		5	Numega, cast ilidan, thiose
Myrrin gum, bgs.			
	•		
:] 🔼 🖟 .	. '		
			and the less sylle unlow sat !
Nephtha, high solvency (see So	vent raphtha,	petroleur	n). Ochre (see iron oxide, yellow, nat.) Ocotes cymbarum oi dma. kilo 5.2
Naphtha, high solvency (see Sov Naphtha, petroleum, cleaners (s	ee Cleaner 8 P ianke	Septemble	Control our tanks (O.b., D.
Naphtha, Vividir, posted New	York-	:	1-Octadecandi, syn., tanka, 1.0.blb
Mew gelest mis 1	gei i	50 20	n-Octane, 97% min., tanks, 1.o.b.

Naphthalene, crude, dom., 78°, tanke, works.
Naphthalene, phthalic anhydride grade, tanke, works.
Naphthalene, petroleum, 80°C.
10,b.
Naphthalene, refd., bells, flakes, whole a liers. | obbers. dms. works.
Naphthalene ackd, crude, bulls, works b. refined, 220 ack, same basis. ib. s. Naphthol, tech, flake, 80-b, bgs. ot. b. Naphthol, tech, flake, 80-b, bgs. ot. ib.

•	workslb. 2.	10	-	11
-Naph	thylamine-5-sulfonic acid (see Lauren) ithylamine-4,8 disulfonic acid (see Cas	's acio). sella acidi	.	11
2-Nach	ithylamine-1-sultonic acid (886 T 00ias i	acid).		
Veatsl	oot all, 20°F, t.i., 1.o.b. works	.52	_	11:
to		.52 .A7	_ !	Į۷
30°F	. i. f.o.b. works	.52	-	_
18	nks, Lo.b. works	.44 .48	.49	
	f, dms., t.l., f.o.b. warks lb. nks, f.o.b. works lb.	39	_	Oil
u Deli	NJIIW RICHMONTA ON WORSE GASING WIND	300-mile i	rediusof	li
	Dimensional Patriciner areas, 1 w.c.	higher, Te	IX88, 2C.	Oliv
h la-a-e	higher and West Coast 3c. higher. yoin sulfate. USP, non-sterile,			ì
NBUIN	dms., 50-kilo. lots, activity ba-			Op
	eja rihari	5.00	-	Or
Neope	entyl glycol, slurry, 90% ., c.l., t.l.,	.522	_	1 5
	dvdb. owder, liake, bgs. tJ., divdb.	.598		1
Nerol	18CN dms	6.30	5.75	1
DOL	d crada cima	4.60	5.00	١.
Nero	i oil, Tunisian, bots kilo 18.00 iidol syn. 55-gail. dms	7.05	-	١.
Mam	an eummaun	7.22	-	١٥
Nieci	namida. USP. I.I. dM8 KNO.	8.00	-	Ιŏ
i	n NF, drns., 5,000 kilos or more, divd	7.50	-	1
fee	ed-orade, 98-99.5%, bgs., same			١o
	Thanks	5.10	5.60	Ιŏ
Nick	el acetate, dms., 5,000-lbs. to t.l., divd. E	1.82	_	-1
Nick	el carbonate, dres., bos., 5,000-			- 1
	Mg Mil OND E	3.45	-	-10
Nick	tel chloride, bgs., 10,000-lbs. to t.i.,	1.19	_	-19
Mick	divd. E			١,٠
	dlad F	1.25	-	H
NId	kei metal, electro cathodes, cs.,	3.45	-	- 1.
Nic	works	0		- 1'
1	E	1.18	-	- 1
Nic	kel oxide, 75%-78% NI, dms., 500-	2.60	_	ì
1	ib. lots, f.o.b. works ib. kei sulfate, bgs., t.l., divd. E ib.	.80	.90	- 1
l Nic	rntinic acid (388 NIBCIA).			- 1
I NIE	-winamida (SAA NIBCINBITIOTI).			l
Nit	ric acid. 36° Ba. 36°Ba, 40°Ba, 42°Ba, tanka, c.l., works NF,			- 1
i i	100% basis ton	195.00	-	- 1
1 1	OA14% to 98% HNO, lanks, works,	280.00	_	ŀ
١.,	100% basis ton Nitrouniline, flake, dms., 1.1	200.00		١.
	morks	1.51	-	- 1
1	motion raid tanks, WORKS N.	1.44 1.37	=	
1	molien, tech., works	101		
10	elid	1.90	-	
Ιp	Nitroaniline, dms., c.i., t.i., 30,000 lb.	1.63	_	
	Nitroanisole, 100-kilo lotskilo	8.75	-	
M	III:ANANZANA TANKS, I.O.U	33	.34	,
1 6	Nitrochlorobenzene, dms., t.l., c.l.,	.82	_	
- 1	tanks, same basis	.74	-	
1 2	NING A CEARCH CACH CHIS., LIVE III.	4 75	_	
- 1 -	alid. lib.	1.75 2.50		
15	litrogen solutions, direct application,			
- ['				
- 1	works UNICION		_	
1	direct application. 19-32%		3 1.4	В
- 1 :	Nitrogenous sawage sludge, proc e s e d . b u k . f . o . b .	•		
- 1	esed, bulk, 1.0.0.	4.10)· -	
H	Chicago. unit ton NOTE: Price is per unit NHs plus \$1.1 producer, s works, Chicago.	er unit a.	p.a. bulk. I	O.D.
- 1	producer s works, Chicago.			
l	Nitrogenous lankage, processed, built	Ľ		
	Nitrogenous tankage, processed, bulk per unit-ton NH ₂ , i.o.b. Carro lylie, Wisc	n 7.0		
^{3).}	I.o.b. Forbes, Me unit to	ი 6.7	ь -	
- 1	expanded, bulk, c.l., per unit-ton f (.o.b. Forrestdale, R.l. unit to	n 8.3	<u> </u>	
	Allandon direct 11. OVO. Co	J		
	o-Nirrophenol, dms., 1 o.b. works; : "			
- [45
- 1	works. 2-Nitropropane, tanks, frt. alid. E	b	55 -	:
- 1			35 -	
- 1	o-Nitrotoluene, dms., c.l., f.o.btanks, same basis		18 .	57
- 1	- Albraialiana Tech. Ulilen Y		83 -	85
- 1			7Č	-
ı	tanks, works. Nonyiphanol, tanks, f.o.b. E. of Roc	k -	49	.531/2
- !	Nonyiphanor, talika, industrialia, les, min. frt. elid	io. Zhenviore	panolamic	ie hy
I	Norephedrine hydrocilionae (ees .	110119-1		•
_ ` \	Liver of diet Fast Inclish, P	F. Bo 27.	00 28	.60
1	dms	ib. 3.	10	
	Nutmega, East Indian, Wilder			
	A -			
. !				
1.				
			<u> </u>	
. 1	***************************************			
-	Ochre (see Iron oxide, yellow, nat.)			·
	Ochre (see iron baue, veres)	kilo (5.00	-

WEEK ENDING SEPT 26, 1986

. . . .

1	Oleum (see Sulfuric acid, fuming).		
	Olibanum gum, tears, bgs lb.	2.10	-
	Olive oil, edible, Spanish, dms gai.	8.00	-
ıt	Italian B-type	5.35	-
	Olivine, crude, workston	12.00	-
:	Olivine, Gude, works	15.00	-
	20 mesh. works ton	20.00	_
	100 mesh. works ton	E0.00	
	Opium. USP, gren. powd. 25-klio	125.00	_
		150.00	
	Orange oil, expressed, USP, Calif.,	1.20	_
	dms., (.o.b. plant lb.	1.00	1.20
	expressed Valencia, dms 1b.	.40	1.20
	Calif., dist., cns. f.o.b. plant lb.		.55
	Florida, dms	.50	.00
	1 Brazilian	1.20	-
	West Indian, bitter, NF X, Chs.,		
	dms	6.50	-
	Oranga pael, bitter, Haltian bis ID.	.38	-
	Oregano, Greece, 30M	2.B0	-
	Turkey	2.80	_
	Mevico	1.05	-
	1 Organium of Spanish, Cha Kno	35.00	-
	Orde mot Florentice, Dis ID.	4.00	
	powd., bbls., bxsb.	4.60	5 00
	Verona bisib.	3.00	
	powd., bbls., bxs	4.60	5.00
	Ouricury wax, reld., pure, bgs	3.25	3.35
	Oxes acid, bgs. c.l., works lb.	.44	-
	b-Oxynaphtholc acid dms. works,		
	tech	2.55	-
	tech.		
	Oxyquinoline base, pure, 1,000 lbs.,	8.00	-
	IFF BAD	2.02	
	Oxyquinoline sulfate, 100 lbs. frt.	4.00	_
	alid	7.00	

1			
	U		
18			
11	Γ		
			عبرسي
	Tenuor 1	10 00	_
I 만	alledium metal, works Troy-oz. 14 alm oli, (see Olis, Fata & Waxes Market Ro	iporti	
15	am oil , (see Ous, 1843 a 112 con 112 lb am oil acid , dbi-dist , dms ib		-
١,٣	tenka	.30	
1	e d. closs	.42	.45
-	enako	.35	-
I ₽	olos karnel od. bulk. C.I.1. U.S	.10	.101/2
		36.00	_
15	Palmarosa oli, Indian dmskilo Palmitic acid, 90%, tech., bagsib.	.53	_
	samba	.51	-
١,	enswerine hydrochloride, NF powd.		
١.	apaverine hydrochloride, NF powd.	56.00 .80	_
		.90	_
1	Spanish, 110 AU bgs	.50	
ין	Paralfin luly-reto . 127-130 F., ASTAN	.29	.35
- 1	tanks, rely 130-135 F., ASTM, tanks, refy.	.331/2	.39
ı	140-145 F., ASTM, (Anxs. rely-	.35	.4172
- 1	160-155 P ASIM. UURS. 1917 .	4117	.46
1	alack wax. 5% oil, lanks fery	.19	-
	12% oil tanks (6tV	.21 .16	-
- 1	20% oil, tanks refy AMP temperatures are an arbitrary 3F hi	cher than A	STP.
	AMP temperatures are an arrow of the Paraformaldehyde, 91%, flake, bgs.	y	_
		2912	-
D.	95%, powd , bgs , c.t., t l. divd. lb.	.391/2	-
l		.76 /2	_
ı	t.i., divd. E	5812	_
- 1	tenks, divd. E.	1.75	-
- 1	Parathion, ethyl, dma, frt, alld ib. Parathion methyl (see Methyl parathion).		
- 1	Corp topor (ad 000)	3.75	-
	abladactor (200 6) KO3	3.75 20.00	22.00
	Patchouli off, Indonesian Carre Killo	10 00	20.00
1	Patchouti oil, Citinasa	1 off).	
ŀ	Peach kernel oil, USP (888 April 8 Waxes me	rket report	١.
- 1		et report).	
- 1	Devile from . Nr. Citus, pure.		3.70
		3.30	3.70
	Coloroppie scid. Oit., LANKS, Hun. Cit.	.70	
	alid	.70	-
1			
.	periosin, pocasaminista, billionunita billion-unitipita, billionunita Periosin, process, sterile 50- billion- priosin, process, billion unita.	25.00	30.00
1/2	Penicalin, proceine, sterile 50- bation-	on 00	_
hy-		36.00 5.90	<u>-</u>
	Pennyroyal oi, dms	3.30	
)	Pentachlorophenot, 50-10, bys. 12.	.65	.
	1.0.0. Aliciant Lean	•	70 '
	Pentserythritol, tech., bgs., c.l., r.c.b., frt. eldb., Pentserythritol, di- and tri-isomera (se	,71	.72 .
	Pentservityliol, di- and tri-isomera (85	e Dipentae	rymmu and
	Tripentaerythritol).		:
	Pentaerythritol triacrylate, t.i. dris.	1.50	- 1
	LO.D. WUIND		
	Pentonerotter cuitar to a min	7.00	
•			
	or more, dvd	14 00	
	or more, dvd	32.00	
•			<u></u>
	Pepper, black, Brazuen, oge	2.03	÷ . +
٠.,	Lampong, bgs	2.00	r ``F
	Lampong, ogs. Metabar, ogs. Telicharry, ogs. Pepper, red Chinese Fuklen nos ogs.). 2. <u>3</u> 0	
	Pencer, red Chinese Fuklen rice bgs	89	
1	Halmen, bgs.	b. 1.00 b78	
76	Ling.bgs.	b. ,70	
		· 7-3	

kilo 6.00 kilo 5.25 (.o.b. lb. .431/a

CHEMICAL MARKETING REPORTER

erika (11. julius 1864). Kali Calaba (1864). Parika (11. julius 1864). Kali Calaba (1864).

CHEMICAL MARKETING REPORTER

September 29, 1986.

P	AE RIC	M E	IC S	A
WEE	ENDIN	G SEP	Γ 26. 19	86

THO EN

PRICE:			Phthalocyanine blue toner, water di persable, bbla., same b	ig 8-		Potasalum bichromate, gran., 400-lb dms., c.l., t.l., works lb		_
		A I	5i8	b. 7.05	7.75	Potassium bifluoride, tech., dms., U.		40
— TO TIEIVII	V		Phthalocyanine green toner, all grade bbls., frt. alld. E. of Roci	k-		works., frt. equald lb Potassiumbitartrate, NF, gran., powd.		.49
	<u>'</u>		Phthelocyanine green toner, resinate	b. 8 .10	10.10	bgs	90	1.20
DDIAC			III bblasama basia II	745	9.20	100-1,000 lbs., works lb	. 18.00	20.00
PRIL - F		• :	Phthalyisullacetamide, dms., 500- kt iots	a. 6.61	_	Potassium bromate, gran., powd., 200-lb. dms., c.i., f.o.b.	ı	
	U.	1	Picolines, refd, mixed, bulk kli Picric acid, pure paste, 25-lb. ctns., c.l	o 2.61	-	workslb.	1.06	-
MICELERING			dry basis, f.o.b. Charlotte),		Poteseium bromide, NF., gran., dms., c.l. f.o.b. works	1.12	_
WEEK ENDING SEPT	26, 19	86	N.C	-	-	Potassium carbonate, Eq., 47% K ₂ CO ₃ , tanks, t.w., works, 100 lbs.		
Perchloroethylene, dry cleaning grad	ie.		sis, f.o.b. Charlotte, N.C It Pigment green B, kgs	. 5.00	-	dms., c.l., l.l., works 100 lbs.	20.65	Ξ
distr., tanks, divd. Indust., grade, consumers, tank	lh s	281/2 -	Pilocarpine hydrochloride, USP.		-	calcined, 99-100% K ₂ CO ₂ , hopper cars or trucks,		
Qiva	íh s	31 -	dms	. 1,500.00	2,000.00	works 100 lbs	32.50	-
Permanent red 28, tred 48, cetch	lb. 2.8 ım	5 -	Pimento leaf oil, dims	. 14.50	-	bgs., c.l., t.l., works 100 lbs. drums 100 lbs.	35.20 36.40	_
salis, drns., irt, alid barium salis, same basis.	lb. 5.2	5 -	Pine oil, 80% min. alcohol content bulk, t.o.b. works 100 lbs	47.00	53.00	Potassium carbonate, gran., purif.,		40
Peru baisam, f.o.b.	h 99		dms., c.l., t.l., same basis 100 lbs)	54.00	400-lb. dms., 5-dm. lots lb. Potassium chlorate, cryst., dms., c.l.,	.40	.46
Petitgrain of, Paraguay Petrolatum, USP, snow white, dras	b. 6.7	5 6.25	a-Pinene, periume gradekilo	1.62	-	worksb. powd., dms., c.l., works	.14½ .30	· -
C.L. raiv	h 9	75 -	tech. grade lb. b-Pinene, perfumery grade. tanks kil	18 o 2.30	.23	purif., gran., 325-lb. dms., f.o.b.		-
tanks, refy USP, soft white, dma., c.l., refy f	b. 3	10 - 75 -	l tech. grade, tanks	.35	.40	ahipping point	.40	-
USP, liv white, drns., c.l., refv. iii	h ?	10 - 70 -	Piperazine, anhyd., dms., t.i., frt. alid.	1.80	_	99.95% KCI, bulk, c.l., f.o.b		
Petrolatum, USP, Lilly white, tanks,		_	Piperazine citrate, 36%, dms., 1,100- ib. lots, frt. alid	2.25	0.05	Works	105.00 1.12	-
usp. cream, dma., c.l., rety it	D31 D31	05 - 85 - 0 -	Piperazine dihydrochloride, 53%.		2.35	USP gran , dms	.67	-
tanks, refy	. 1	0 - 50 -	dms., t.l., frt. ald lb. Piperazine hexahydrate, 44%, dms.,	2.00	-	I Potassium chlorida, acricultural (see Po	.67 taasium mi	.iriato).
(22)(S.16)V	. 99	35 -	1,100-lb. fots, frt. alid lb. Piperazine phosphate, 42%, dms., i.l.,	1.60	-	Potassium chromate, purif., cryst., dms., works	.57	•
USP, amber, dms., c.l., refy	1. 28		I fri.aMd is	1.60	_	Potassium citrate, NF, gran., 200-b.		-
Petroleum pitch (see Asphalt, petroleu Petroleum autonate, 60-82%, suitona	rm).		Pipendine dist. 98% min., dms., c.l., t.l., works.	6.92	_	dms., frt. alidib. Potassium cyanide, dms., 20,000-ib.	.031/2	-
cont., HMW, bulk, works lb MMW, same basis ib	48		I Piperonyi buloxide date dwd. F Ib.	5.00	Ξ	lots or more, f.o.b. works. , lb. Potassium dichromate (see Potassium	1.32	-
LMW, same basis In	ĄŎ	404	Pfathum, metal, works Troy oz. Polycarbonata resin, pelleta, nat. t.i.	585.00	-	l bichromate).		
Prices for 51% sulfonio content 2c	per lb. lo	wer on come-	fri. andib. Polyester resin, unsaturated, g.p., or-	1.84	1.88	Potassium fluoborate, tech., dms., c.l., i.i., works, frt. equald ib.	1.40	4.40
Phenacetin USP, powd., 2004b, rime			nophinalio, buk, lankcars.	_		Potassium fluoride, anhyd., dms.,	1.40	1.42
1.000-lb. iots, dlvd lb. 100-lb. dms., 1.000-lb. iots, dlvd. lb.	0 00	2.45	frt.aid	.51 .56	.53 .62	Potassium gluconate, dms., t.l., f.o.b.	1.68	-
p-Pheneticine, dms., c.l., f.o.b ib. Phenobarbital, USP, dms., 500-kilo	2.00	-	i Polyethytene resin, high-density, blow		-02	r works ib	1.45	_
IOIB., T.O.D. WORKS MIC	10 50	-	molding, g.p., hopper cars, frt. alid	.43	.46	Price W. of Denver 4c. per lb. higher. Potassium gualacotsulfonate, 300-lb.		
Phenobarbital-sodium, NF, 500-kilo fots, f.o.b. works kilo	27.00	_	Injection molding, g.p.,hopper cara, irt. alid	.43		i dms., 600 lbs. or more tru		
Phenol, syn. tanks, irt. equald ib. p-Phenolsulfonic acid, 65% aci'n.	25	.29	extrusion, g.p., hopper cars, same		.48	equald ib. Potaseium hydroxide, tech. (see Potash	2.10 .caustic).	-
GM8C.I., Job works In	.64	_	basisib. wire and cable, nat., hopper cars,	.47	.48	Potassium hydroxide, USP, pellets, 100-lb. dms., c.l., t.l., works,		
tanks, same basis	.58	-	same basis	.45	.49	/ 101. ACIUAICI II-	1.29	1.31
bags, c.l., l.o.b. workslb. purif. grade, same basislb.	2.33	- .	SB	.551/2	.57	Potessium lodide, USP, gran., cryst., dms., 1,000-ib. lots divd b.	10.72	
rijenyi acetate, dms., 100-b. lots,	2.69	-	i Polyethylene resin, low-density, film	.36		I ALS GIADA ITUCKINAD III	11.32	12.39 13.55
Phenylacelic acid, pure cryst., 25-lb.	1.04	-	Clarity film, hopper care, frt		~	Potasalum-magnesium sulfate, atd., bgs., workston	59.00	_
cnsib. di-Phenylaianine, dms., 25-kilo	4.50	-	alid	.37	-	I D8818 40% K ₂ 80, and 55%		_
KOLS kilo	84.00	_	same basisib. extrusion coating, hopper cars,	.35	-	MgSO ₄ bulk, works ton Potassium metabisulfate, gran., dms.	67.00	-
I-Phanyi-3-carbathoxy pyrazolone-5, dms. 200-lb, lots, divd. F. Ib.	3.45		Same basisb.	.38	.42	t.i	.44	-
m-Phenylenediamine, cast, dms., c.t.		•	Polyethylene linear low-density a.o.	.38	.42	K ₂ O, 8ld., bulk, c.l.,		
1.f., f.o b works	2.07	-	resinblown film reain	.36	40	frt. equald., f.o.b. Sask., Canada ton	44.00	45.00
f.o.b.works	3.25	-	Cast nim/asin	.40 .40	.43½ .45	Salubie, rine stat., i.a.b.		
l.o.b. works lb. Phenylephrine hydrochloride, USP	4.00	-	Polyathylene resin, low-density injec- tion molding, g.p., hopper			Saskton coarse, f.o.b. Saskton	46.00 49.00	47.00 50.00
100-kilo lots or more kito	175.00	185.00	Cars, same basis	.45	.48	gran., f.o.b. Sask ton Potassium nitrate, fert. grade, std., 50-	50.50	51.50
2-Phenylethyl alcohol, NF, dms ib	3.35	-	line wire, CATV, power cableib. wire and cable thermoplastic high-	.647	-	ton C L. divd. SE	267.00	274.00
D-Frenchisternylamine, chris., 30,000 lbs.	210	2.20	voltage, natural color, same basisib.	70	7.44	tech., gran., bos., c.l., min. 50 tons		284.00
ormore, irt alid	1.50	-	Wire end cable. XLPE low voltage.	.70	.741/2	GIVO	470.00	_
cns	5.50	6.90	14% carbon black, same basisb.	.671/2	.721/2	Polassium oxalate, neutral, tech., find gran., powd., 300-lb. dm., frt.		
Priemymyorazine 99% min dos in	3.50		wire and cable jacketing, black lb. Polymyxin sulfate, USP, bulk, 50-billion	.587	.667	equaldb. Potassium pentaborate, gran., bgs.,	2.54	-
1-Phenyl-3-methyl-5-pyrazolone, dms., 250-lb. lots divd. E lb.	1.80	_	UAIIS Min Million unite	.52		G.J., WORKS, Ib	1.01	_
o-Phenyiphenol, dms., t.l., works lb. p-Phenyiphenol, bgs., t.l., 40,000 lbs.	1.35	2.00	Polyoxyethylene sorbitan monos- tearate, dms., 20,000-tb. iots,			dms., seme basis ib. Potessium pentaborate powder 15c. per	1.06	-
OF IFICIES, WORKS	1.85		works	.73	_	TO COMPOSITION DESCRIPTION DE LA COMPOSITION DEL COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DEL COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA COMPOSITION DE LA C		
Phenyipropanolamine hydrochloride, 100-kio dm. kilo	24.00	28.00	I GMS., 20.000-lb. folk			works. Ib. Potassium permanganate, free flow-	.78	-
Phenylsalicylate, purit. cryst., dms., E			worksib. Polypropylene resin, homopolymer.	.73	-	ing, bulk, hopper trucks, works		
IBGTI., CTVSC., E Ih	2.75 2.25	<u>-</u>	I G.D., Ditt., t.L., let. Allet is	.45	.48	ov-ka. ame same basis — ib	1.09 1.20	Ξ
flake, E	2.35	-	copolymer, med. (mpact, nat., lb.	.50	.56	Polassium permanganata, USP, 50-in	1.17	-
alidib. Phosgane, 1-ton ret. cyls., 5 to 9-cyl.	1.95	2.05	high impact, same backib. Colored material 6c, per lb. higher for	.53	.60	kgs., works, c.l., t.l ib. Potassium persulfate, 225-lb. dms.,	1.38	••
quantities, works	.55	.67	i gacidrada			24,000 l08, or more, (.o.b.		
Of Miles washed, 66-89% to n			Potystyrene resin, cryst., nat., hopper cars, frt. alid ib.	.48	_	plantcwt.	78.80 72.50	-
bulk c.l. mines	23.15 28.00	-	anipact, nat., nopper cars, same ba.			COURSION DYCODOSDOBIO tetrobasio	72.00	-
Phosphoric acid, com 1. and tech. grades, 75% tanks		_	Care seme basis	.51	-	bgs., c.l., l.l., works, E., frt. equald 100 bs.	43.75	47.25
WO/NB	29.00	_	I VAPRICADIO COOCIA (EPS) NACINA	.52	-	bulk, same basis 100 lbs. Potassium salicylate, USP, gran., 200-	46.00	49.50
80% tanks, works 100 lbs. 85%. N.F. tanks, f.o.b. freight	31.00	-	modified, same basis	.69	~	I IV. QITIS 2.DOO IDS. OF MOVE		
Food grade prices \$2.00 above tech. or	33.50	-	Polyvinyl alcohol, fully hydrolyzed, medium viscosity, bgs., t.i.,	.73	-	works. frt. alldb. USP, powd., 300-lb. dms., 2,000 lbs.	1.52	-
rnosphoric acid, agricultural orada	i Diag.		I CKVQ IIs	1.00	1.05	or more, same basis ib. Potassium silicate, soin., 29.8-30.2	1.42	-
52-54% a.p.a., tanks, worksunit-ton	3.10	_		1.05		PG-1 4-5 [BUO, 1.C., 1+		
super, min. 70% a.p.a., same basisunit-ton,	3.46		fly, bgs., t.l., divd	1.00	-	dms. cl. tl. works 100 bs.	18.90 25.90	-
r-nospirorus, write (yellow) solid dris		•	divd	.50	_	" Utopowurii Bulcate, 40-40.5 Pa 2 1 Pa.		-
c.L. works, fri. equald lb. lanks. works, f.o.b. works lb.	1.00 -91	-	Bis Bulk, 88/70 DA-		_	tio, t.c., t.t., works 100 fbs. 40-40.5 Be., 2.1 ratio, dms.,	25.05	-
Phosphorus oxychloride, tanks, frt.	.40	_	DOB Grade, build, stante basis 16.	38 47	-	Potasaium silicate, electronice grade	32.05	-
rnosphorus pentasulide, powd		-	film grade, bulk, same besis ib. Polyvinyl chloride, g.p. copolymer dis-	.37	.47	90°00.9 DBL 2.1-2 2 PBHA LA		
tima., cl., works. , 100 bs. tote bins, sellers 100 bs.	50.00 45.00	-	persion, same basisib. g.p. copolymer suspension, same	.58	.61	dms. cl. tl. works 100 bs.	26.10 33,10	
Priospriorus pentoxide, dms., t.l.,	.82		P CSUML	46	.49	tl. works		-
PROSPRIORUS SESQUISUTICIO, OMS., CVS.,		-	Turkey, hds.	.59 .63.		I Some of Massa, 2.0 failing, films, c 1	53,30	-
Phosphorus trichloride, dms., c.i.,	-38	-	Potash, caustic, lig., 45% hasts, tanks	ito).		"Flatio" indicates percentage by which	45.65	
worksg).	.40 .35	-	WORKS 100 line	13.00	_	POURSium allignitis and the same	. ui aru _i (wided by
Philippic anhydride, flake, c.l., t.l., dms.		-	ex terminal	18.08		fit sounds DQS., Q.I., \!	.111/2	. 12
irt. equeld	.30 .27	-	reg. flake, 88-92%, 400-lb. dms., c.l., works 100 lbs.		-	Origonal della late, per, gran.		15
Prices 1-19ac. per lb. higher on the Wes Phthalimide, liake, works	et Coast .85		COUSSIUM SOSISIS, N.F. Oran, drug. 11	42.35		Potestick otone to L. One., CIVO Ib.	.80 2,20	1.20 3,10
Phinalocyanine blue toner, red shade.			Potasskim bicarbonate, tech., gran.	.90	1.31	Potassium suffate, orns., frt. elid., ib. min, 60%, KgO std., bulk, c.i., f.o.h. works	N.A.	
bbis., fri. alid. E. of Rockiesb. green shade, same basisb.	8.10 6.40	9.50 8.50	bgs., cl., works	311/2	-	min, 60% K ₂ O std., bulk, c.l., f.o.b. works	450	
resinated, bbis., same basis ib.	6.20	8.75	dist. L	.72	- 1		100.00	160.00
38 CHEMICAL MA	RKET	NG REPO			, i		86	
			Sopotime,	.,				41, 1 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
						The Boat Control of	T(1, 0, 1)	147

			- :- ·	
-	Potassium totraborate, gran., bgs , c.l. works	1.10		R2 12
.49 1.20	Potassium tetraborato powder 15c. pe Potassium thiocyanate, USP, cryst., 225-ib. dms . 5-dm. lois . ib.	1.15 r ton higher		100
20.00	Polassium titanate, cins ci	4.01 .62	-	l _{Res}
_	Potessium-titenium fluoride, tech.,	714	•	Aus
_	dms., t.l., works, frt.	1.24	1.59	12
-	Prednisone USP dnis. 5 kilos or moro	.78 1.03	:	
_	kilos or more gram Prednisolone, anhyd., USP, dms., 5	1.12	-	lì
-	kilos or more gram Procaino hydrochloride, USP, anbbi- olic grade, Ums . 2,000-lb.	1.12	-	Si
.48	Proceine hydrochloride, USP, ampulo grade, dms., 1,000-	4.95	5,76	54
· -	fb. fols, frt alid	4.95 .35Vz	5.50 ·	\
-	n-Propyl acetate, tanks, divd ib.	.33 .53%	.34%	s
-	iots divd	.42 11.50	.u -	1
- - Juriato).	n-Propyl-p-hydroxybanzoate, USP, 500 kilos kilo lech. 500 kilos, f o.b kilo	10.80 10.36	-	S
- -	Propyl paraben (see n-Propyl-p-hydroxy Propyl thiouracil, dms., 50-klo lots or more	/benzoate) 56.00		5
2 –	Propylena, polymer grade, I.o.b. Tex. and La. Gulf Coast coints. Ib.	.75	.BO	
-	chemical grade same basis b. Propylene glycol, indust . tenks, f.o.b . ib. USP, tanks, f.o.b. E	.174 .154 .40	.18 .41	
1.42	tanks, divd. E	.43 .49	-	
-	Propylene oxide, tanks, f.o.b. works, frt. equald	.47½ 1.50	1,75	Ę
-	Pumice, dom., fine, 4F-0, bgs., ton lotston medium, 0½-1½, bgs., ton lotston	270.00 300.00	-	
_	coarse, 2-extra coarse, bgs., ton lots	300.00	-	
	medium, bgs., ton lots, f.o.b. East	280.00	-	
1,31	Coastton coarse, bgs., ton lots f.o.b. East Coastton Pyrazolone red (red 38), dms	350.00 300.00	-	
12.39 13.55	Pyrethrum flowers, fine ord, 0.9%	5.25	5.35	
<u>-</u>	Pyrethrum, purif., 20% pyrethrins.	1.91	- 37.75	
-	dms., works lb. Pyridine, refd., 2-deg. c.l. works dms.,	37.50 5.90	- -	
	tanks	5.70 29.00	33.00	
45.00 47.00	Pyrites, Canadian 48-50% S. mines	4 50	5 00	l
50.00 51.50	Pyrogaliol, 100-lb. dms , 1,000-lb., kds, dvdlb	13.70	15 25	
274.00 284.00	A			1
-				ļ
-	4	بجينسن		
-	Quassin chips b. Quinneridone maroon, dms., frt. alid	.57 20.75	- 24.25	1
_	red, dms., frt. alld lb. scariet, dms., frt. alld lb.	17.76 21.76 17.76	19.00 24.25 19.00	
	violat, dms., int. alid	2.00	2.75 4.25	
-	Quining hydrochloride, NF, 1,000-oz.	4.20 2.46	2.50	}
	Quinine sulfate, USP XVIII, 1,000-oz. dins., 2,000 oz. or more oz. Quinolino, dms., t.l., frt. equeld lb.	2.30 1.49	2.50	١
-	tanka, samo basisib.	1.43	_	Ì
47.25	D			
49.50	n			
-	R selt tech., 304 molecular wt lb.	2.12	-	ľ
-	Recemethionine, USP, 50-260 kilos	6,80 6.60	:	ļ
-	500 or more kilos kilo feed grade, 99% min., c.l., t.l lb. Repessed oil, dms	6,50 1,07 5812	6214	
-	Rauwoliia sarpentina root, powd. bls., dms. klo. Red carmine. No. 40 (see Carmine No. 40	22.00	•	
-	Reserpine, USP, cryst., bots gram.	40	4251	
-	Resorcinol tech., bgs., t.l., works. divdkilo. Resorcinol, USP, cryst., dms. 50 kilos	3.96	-	٦
_	or more, worksklo. powd. dms., same basisklo. Resorcinol monoscetate, dms., 1,000	9.35 9.90		
divided by	ibs.ormoreib. Rhodamine red toner, molybdated, PMA, dms., worksib.	1.96 9.25		l
.18	ungstated, PTMA, dms., 1.0.b. worksb.	11.60	14.00 105.10	
1.20 3.10	syn., dms	15.20 45	68 .70	. !
180 00	Riboflavin, feed grade, 25 kilos, divd.	34.50 44.60	48.00	:
160.00	Ribolievin, USP, 25 kilos, cilvd kilo Ribolievin, 5-phosphate-socium, 25- kilo lota kilo	43.00 138.00		į
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	charin NF, gran., soluble, dms. 1,000-lb. lots, frt. alld to	2 50	2 75	So	we dium be
	than 20,000-to lots, fit alid its	3 75 47	- 50	١.	ow 8, bwoc
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_	geleaves, Dalmatian, No. 1, bgs. ib. Iberian, bgs	1.95 1.60	-	So	dium bo
		1.15 90 00	1.25	1.	50 30
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	USP powd. dms 1,000 lbs. or	1 68			d
,	more.	. 00		s	odium c
S	a).evaporatad, common, 60-10 093 c l., t l., North, works . 80 lbs.	4.02	44.00		odium c
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!	of more madium, coarse, surie us.	270	-	s	odlum 9
	sis	18.00		9) Sodium (
	arcake, dom., bulk, works, 100% NSO, bases, f.o b. works E ton	65 00			Sodium
١,	same basis W ton Bardelwood oil, E. Indian kilo Indonesia kilo	90.00 145.00) –	- 1	Sodium
1	SUCCORING, LOCK., LAINKS, WORKS, I'I			- []	ecalli II I
l	equald	. 51	o -	- 1:	Sodlum
	basis works	2 7	9 -	- 1	Sodium
ļ	100-oz. fols bots oz	36.0		- 1	
l	Sebacic acid, CP, bgs., c.i., works. Ib puni., bgs., c.i., works	1.9	4 -	- 1	Sodium
Ì	Sedizmuxture, dms , 5,000-lb. lats its Seenium, powd , 99 99% Sc. dms.	•	01/2 -	- 1	Sodium
ł	comi., 99.5% Se. same basis Ib	130		١ ١	Sodium
l	Sens leaves. Alexandrina, whole and half, bla	d 	5 .80	,	Sodium
l	Transvelly, No. 1, bls). ·	70 .71		
l	Sesame oil, USP, dons . Lc I	, 1(jō 1.20		Price Sudiu
ı	Sesame seed, Control Amorical hulled, bgs	•	50 .51	·	Sodium
l	Sanna pigment, burnt, papor ngs	b		81/2 374	Sodium
l	raw, paper bos., i.c.i., works				10
١	Since, amorph. dry-grd., bqs., c works 93%, 200 mesh. 10 98% 200 mesh. 10	nn 31 on 32	00 33.5	0	ΰ
ľ	98%, 200 mesh	on 34.	50 35.5 00 -	ן מ	Sudiu
l	99.5%, 325 mesh 5'ca, dry-grd., bgs., cl., works, 99.9		.50 54.5	i0	Sodiu
l	400 mesh, micronized 1	on 72	.00 75.5	0	Sodiu
I	99% under 15 microns, n	on 79	.50 82.5	50	Social
l	99% under 10 microns. r	nı•	00 105.	00	Sodiu
I	cronized. Sica, hard-quartz, 99.5% SiO, 3 mesh, bga., c.l., works	וכ ואון	- 00		Sodiu
ŀ	140 mesh, bgs., c.l., works. Secon tetrachlorido, tech., dms., (ion a	1.75 -	•	\
l	WOrks	. ID.	.50 -	•	Sodi
	tanks, works. Siver bullon, ingots, cs., Troy.	OZ.	5.665 - 4.61875 -	-	[<u>. u</u>
ļ	Silver cyanide 80% Ag 500-oz. lots Silver nitrate, ACS, 58.2 Troy oz.	AG/		_	Sodi
	100 avoir, oz. AgNO ₃ Soapbark, crushed, bis	oz. . 1b.	3.3057 1.00	- .86	Sod
	Soda ash, denso, 58%, 100-lb., pa	auo. aper	1.00		Sod
	bgs.c.i., works, i.o.b buk, c.i., samo basis	ton 12	10.00 13.00	_	Sod
	ight 58%, 100- tb., papor bgs., same basis	. C.I., . Ion 18	50.00	_	Sod
1	bulk, c.l., same basis Soda, caustic, tiq., 60%, seliers te	ton 1	23.00	-	te
ŀ	Guil Coast Works, 1.0.0.	, TPT.	75.00 <u>19</u> 5	5.00	Sod
	9qual., 76% Na ₂ O	.ton. 2	NS 00 22	5.00 0.00	1.6
l	lake, 76%,400 lb dms, c.l, works . solid, 76%,700-lb dms, c.l,			0.00	1
Ì	works				So
ı	works. beads, 76%, 400-lb. dms.	.ton. 6 .c.l.,	20.00	_ 	١,
ı	works		27.50 2 Prices in W	8.50 est 700	
	PRRPQ	-\$30 ton	higher for g	ran: an	╸
	Soda, sal., conc., bgs.,	C.I.	3.35	3.85	1 1
ξ	WILLIAM ACRIAIA ANNUA NAR	C.I	.54	_	- } -
١	Sodium acetate, LISP, 60%, grad	100-		_	Sc
1	Sodium alginate, NF, white p	owd	.57	e 7E	. .
1	Sodium p-aminosalicylate, dma	100-	6.00	6.75	8
1	10. lots of more, 1	1.O.D.	4.73		l l
ļ	works. Sodium antimonate, bgs., c.l., dwo Sodium ascorbate, USP, dms	LE, D.	1.49	1.50	. 8
ļ	kilos. Sodium benzoate, tech., bgs.,	, kio.	9.30	10.60	1.
	Int. aild		1701/2	امور ماري	
	CLUI for alld		831/2	17	4 ii 3 1 ii 3
	100-b. dms., c.l., t.L. same b	asis ib.		$\mathcal{A}^{(i)}$	8
÷	ion-lots, same basis,	. 16.	.92 .92	, , ; ;	×
ن			100		$\frac{1}{d} \cdot \frac{1}{2} \cdot \frac{1}{2}$
	A Comment of the Comm	7.0	2 5 64.		ra ji

	الأسبي المناسلية والمساوات والمساوات والمساوات والمناس والمساوات و	
ni bicarbonate, USP, powd., reg.	Sodium orthosilicate, tech., arrhyd., bns. c.l., works 100lbs. 34.50 -	ALIES SIA AL.
grado, bgs., cl., H., works, frt. equald 100 lbs. 17.05 —	Sodium orthosliicata, tech., hydrated,	CHEMICAL
nso. sanio basis 100 lbs 18.05 — , sanne bosis 100 lbs 17.20 —	flake, dms., c.l., works. 100 lbs. 27.45 - bgs., c.l., works 100 lbs. 28.25 -	(CHEWILLAR)
n samo basis	Sodium oxalete, 99%, bgs., 11, works ib45 -	
n , fine, same basis 100 lbs 17.60 — im bichromate, gran., bgs. c.l., t.l.,	Sodium pentachlorophenate, beads c.l., 30,000-lb min lb	PRICES
works, Irt. equald lb	bgstb66 - Sodium pentobarbital (see Pentobarbital sodium).	DRIL.F
ım biliyoride, 400-lb. dms., c.1., fit equald	Sodium perborate, tetrahydrate, tech.,	PRIVES
0 to bogs, c t, same basis lb 76 -	bgs., c l., t.l., works lb32½ .36½ Sodium persulfate, 225-lb. dms., 24,000	
ını bısulfate, bulk. c.f., works tori 175.00 — 1s	lbs. or more, i.o.b. plant lb	WEEK ENDING SEPT 26, 1986
um bisuline, anhyd. bgs., c l., t.l., works, East 100 lbs. 28.50 -	55-lb. bgs. same basis	المجاز المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار المدار
nks. West 100 lbs. 32.00 -	Sodium phenosultonate, powo., dms., fb /6 -	Sorbitan monostearate, dms., c.i., t.i., 30,000 lb. min., f.o.b.
im bisulide, soin , 38%, bulk, 100% basis, works, East 100 lbs. 20 60 -	Sodium phosphate, arhyd., dibasic tech. bgs., c.l., t.l., works, irt.	works
in 100%, bulk, works, Wast 100 lbs 20.00 -	equald	Sorbitan tristeerate, c.l., t.l., 30,000 lb. mm., t o.b. works lb80 —
vorks 100 lbs. 21.90 -	Sodium phosphate, monobesic, tech.,	Sorbitol, USP, reg. 70% aquequs,
ium borato NF, gran , bgs., c.l.,	food grade, same basis, 100 fbs. 59.75	dms., c.t., t.o.b. shipping pointb. 35 -
owd , same basis	tribask, tech., same basis. 100 lbs. 52.25 52.75 food grade, same basis. 100 lbs. 63.25	tanks, f.o.b. shipping point . lb
lium borohydride, powd., dms., 1000-5000 lbs. workslb. 19.88 21.90	chlorinated, same basis . 100 lbs. 31.50 -	gran., oma., c.t. 11, works
num borohudude, stabilizad water	cryst., tech., same basis. 100 ibs. 30.50 - cryst., food grade, same ba-	Soybean meal (See Oils, Fata & Waxes market report.) Soybean oil (See Oils, Fats & Waxes market report.)
soin., 12% NaBH, 100% basis, 3000 gal. tankwagon, works. lb. 17.45	1 ele 100 De. 35.50 -	Southern all acidulated, SO2DSTOCK,
tium bromide, 99%, gran., 400-lb.	USP, dried, powd., bga., dms., works	Southern of acid offil dist., data., lb. 48 .59
tum carbonate, decahydrate, bgs.	Sortium picramate, tech., paste, 200-	tanks
c.1, t.1, workston. 264.00 dium carbonate, cryst monohydrate (see Soda, ash)	Sodium propionate, dms., 2,000 lbs. or	9.0 dats. b. 38 .43
dium carbonate mononvorateu.	more, t.o.b. Int. alid ib	Spearmint leaves, imp., bis ib. 2.50 2.70 Spearmint leaves, imp., bis ib. 14.00 15.00 Spearmint oil, Fer West, native ib. 14.00 12.00
bgs., c.l., t.l., works ton 392.00 - dium carboxymethyl cellulose (see CMC.)	[c] works (rt. equalo 100 lbs 00.25	Michael astive
dium chlorate hilk, l.C., l.S.,	tood grade, non-leavening, bgs., c.l., works. (rt. equald 100 lbs. 61.25	Fer West, Scotch
delivered, N.Eton 315.00 - delivered, S.Eton 335.00 -	Sodium ovrophosphale, ferric, oms	Consecutions
dium chlorate, cryst., 450-lb. dms.,	Sadium pyrophosobate, tetrabasic,	St. John & Dread, editie, this
clium chloride, tech, (see Sall.)	anhyd., tech., bgs., c.t., t.t., works, frt. equald 100 lbs. 44.75 -	morks
dium chloride, USP, gran., bgstb	bulk hopper cars, same ba-	Stangers chloride, activit, drist, wks . lb. N.A
works	sis	Stannous Iluoborate, iiq., conc., dms., t.l., works, irt. equald ib. 2.50 -
odium chromate, anhyd., dms., c.i.,	1 Ele 100 IDS 03.00	Sternous ovide drist, works
vilum chromate, teirahydraie, bys.,	Sodium saficylate, USP, cryst., 200-lb. dms., 1,000-lb. lots or more.	Stannous suifate, dms., works
odum chrate, oran, anhyd., 200-lb.	works, fri. squald	
AME CITINT. ID.	loto or more game nave. []. 3.00	triple-pressed, bulk
odium citrate, USP, gran., dihydrate, 100-lb. bgs., t.l., f.o.b. ship-	Sodium sesquicarbonate, bulk, c.l., t.l., works	Communication of the Communica
ping pointib74½ - odium cyanata, dms 1,000-lb. lots,	hos cl. tl. works 100lbs. 198.00 -	Strontum carbonate, glass grd , bgs tl., works
	Sodium silicate, solid, or glass, 3.22- 3.25 ratio, bulk, c.l., t.l.,	Strontium nitrate, 50-15 bgs., c.l., works
odium cyanide, briquettes or gran., 99% min., 200-lb. dms, min.,	works	Sturges monomer, 99.6% min , t C
Lo b works ib	1,95-2.00 ratio, bulk, c.i., t.i.,	L.L. 1.0.b. works
Sodium diacetate, anhyd., dms., c.l., works	works	O D DIROL
Sodium diacetate, FCC, 50-lb, bgs., 11., divd E of Rockies lb. 61 .67	soin 37.8° solid, 3.22-3.23	cryst Durk, same basis
Sodium diacetate, tech , 50-10, dms 53	ratio, bulk, c.t., 1.t., frt. equald 100 b. 6.30	Styrolacetate.dms.
c I., works	Paris Indicates dercentage by Weight of Sica Circus	by Succinic acid, purif, cryst., dms., t.l., 2.00 2.10 irt alid
or mixed 1.1., 1.0.0. Shipping	percentage by weight of Na ₂ O. Sodium silicofluoride, bgs. cl., t.l. Sodium silicofluoride, bgs. cl., t.l.	Succinicanhydride.dms.,C1,11.,1.0.0
Parces W. of Denver 2c. per pound higher.	works, frt. equald 100 bs. 17.95 19.75 Sodium stannale, dms. wks. frt. alld E ib. NA -	Characa raid white bos. Cl. 1.0 D
Sudium ferrocyanide, bgs. 1.1. 60 -	l Codium sullaniale, dms. Works W	Surrous a celate isobutyrate, 90%
Codum Buchorala Bich., Gran., Gris .	Sodium sulfate, NF XII, bowd diffs	dms, L1, dlvd lb. 1.18 - tsnks, dlvd lb 1.10 - 1.18
Coulum Unovide white 97%, 400-lb.	tech detergent, rayon-grade, c.l., works. Gulf	tanks, give
dms .c.l .works, trt. equald tb. 6345 - 100 bgs .c.l .same basistb60 -	Codum autlate West Dulk, C.I., Works,	Sucrose Octa-acetate, dellaturing
HED nowd (200-ID, QIIIs-, 1	frt. equald	n 1 51
Custom formato hos. G.L. works Ib .20 -	1 Codium sulfate Onoto Orage, 19919.	Suitabenzamide, drift , 500 dris., 500
Sodium gluconato, tech . 50-lb. bgs., 2,500 lbs. or more frt. alld., lb60	Codhum suifhydrate, flako, 70-72%	kilos.
Section hydride oil dispersion, 60%	dms., c I., works, (11. equald	bilds
NaH. 167-lb. dms., 10 dilis.	L un AA.AR% lanks, Works, ""	Sulfadiazine, USP, powd. ams., 500 -
Cadum have certifide (808 SQUIUM Buility of Are.)	equald	I C. Madleston, Bodium, USP, CMS., 300
Sodium hydrosumus, dris., dri., ib	E IN ACURO.	Suitemerazine USP, microcrystals,
Sodium hydroxide, USP, peners, 100-	ogs., same bass	oms 500 kilos kilo . 33.50
	Works, E., III. equals, 100%	F C. Hamethazing-ROCIUIII. USF , POTO.
Sodkum hydroxide, lech. (889 5008, Caballa)	bgs, (.o.b. works 100 lbs. 23.76 -	construction powder, das, 500
	52 Sodium sulfocyanide CP (see Sodium vince) and Sodium sulfocyanide (see Borax).	C. Hards could cross bos. C.1. U.
1 10 lb. dms.	Sodium tetrasuflide. IIq. 34%. dms Sodium tetrasuflide. IIq. 34%. dms c.l., works [rt. squald lon 540.00	Sulfamic acid, cryst., bgs., c.1, t.1, works
Sodium todide, USP, Cryst., 300 to 330 C.I., works., irr. square.	Sulfamic acid. gran., onis, c.i., ub. 38 -	
L Codum leural sulfate, 307s, Wilker	32 Ib. dms., 5 date. or 1100 3.26	r 1 c. Henlingide NF (80, 1.000-10.0118-1
f.o.b. Works	tech., srhyd. dms., 2,900 lbs. or more, works	entimatic acid tech. bos. t.l. f.o.b.
worke.	more, works.	Works
I A - II. I MOTOROFRIA DULAITYUMA	Sodium trisoania, 100-lb. bgs., c.l., t.l., anhyd., 100-lb. bgs., c.l., t.l., works, frt, equald 100 lbs. 45.50	m dmo
gran., bgs., c.l., works	contaburtala C.L. Liu 30010	Sulfur, crude, bright, moites, dom., f.o.b. - Sulfur, crude, bright, moites, dom., f.o.b. - Sulfur, crude, bright, moites, dom., f.o.b. - Sulfur, crude, bright, moites, dom., f.o.b.
works. 12-th bricks, dms.,	basis	f.o.b. La refy Houston long-ton 125.50
	Socium tricmoroacetate, so in ib	recovered Rotterdem long ton 135.00
tused, dms. 24,000-15. lots of 110-51.	I a m Jack-shouthouth IRCTL, USB, Usb	f.o.b. tanks, Albana, Caraus, 10 ton 102.00
	11. WORKS, 171. SQUEST, 100 Ibs. 37.50	dark, ex-Tarripa, File long-ton 157.50 guitur, crucke 99.5% min. purity. comi.
Sodium metaphosphate, tech. bgs c.i., f.o.b. shipping pt. lit. equeld		
	busertale tech high moly.	basis
100 grade, bgs. c.i. 100 lbs. 68.25	oma. 10,000 los of the b. 5.00	0.20 1 m. u. o mark DO NYO HIRD, DUTLY: "VIII"
Sodium metashicate, attityd. 100 lbs. 27.25	T C-Up orada dma. 10,000 tos. O	
bulk, a.l., works	more, earns basis. puril.	60-10 segs. 100 lbs. 17.50 lbs. 17.50 lbs. 17.50 lbs. 17.50 lbs. 100 lbs. 20.00 lbs. 100 lbs.
	cyst., dms., works	
bulk, c.l. Works.	QMS., tu., 1.0.b. western 1.050	mines basis 100 ubs. 28.00
Sodium molyboats, and over. b. 4.67 works, 100 lbs and over. b. 4.12	Sodium-zirconyl sullate, oma., 1,000- io, lots or more, works ib	- I
cryst., dmsi, t.i., saine beauti.	tech., dms., any quality, matraight	nty come, reg. 100 bs. 14.60
f.o.p. works		fine, 98% min. passing unrught 323
Sodium Nitrate, USP, 1994, 100 lbs, 34.50 frt. equald. (or inclusive) bos.	567 ma.p., tenna.	Suffur dichloride, dms. C l., Works, m.
Sodium nitrate, com., moustain ion 284.00 2		1 1 1 1 1 1 1 1 1 1
bulk, o.l., works,	Solvent naphthe, petroleum, straight aromatic, b.	Sulfur dioxide, IIQ., DUIK, L.C., ton 230.00
Gulf whse, Lealer ton 182.00	18.00 410°F, 60°F m.s.p. tanks: del. 30 New lersely del. 30	1.35 Sulfur morochloride, dms. cd. works
IMM. MOTOURISM WIT = ***** 12.2 ** 140 AA-*	Houston 130	1,35 tentra same basis
bulk; o.t. series passes imp., sgridultural, bulk, por, 140,00 garre best pros. o.t. works.	Houston Gal 130 Minoli Scrible acid. Ll. orths, chyd. 16, 2,20	
Soldum nitrito, USP done, d.L. works, 17.26	Septemper 29, 1986	CHEMICAL MARKETING REPORTER
	The state of the s	the state of the s
等。 [1] "大人","是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	(古代斯語中語) [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	the state of the s
the finance to be a superior and superior and a superior		

	.45	
	Thorlum nitrate, purif., dms., 100-lb.	
	di-Threonine, dms 10 kilos wkskilo. 128.00 Thyme leaves, Franch, bgs	-
TILIVIUAL	Spanish, bgs	1.20
BRIAFA	NF, white, dms. kilo 22.00 Thymol, NF. ib. 3.75	6.15
PRICES	Thymol lodide, dms., 100-lbs. f.o.b. works	56.20
I IIIAFA	Tin metal (NY composite) ib. N.A. Titanium dioxide, anatase, bgs., 20-	-
WEEK ENDING SEPT 26, 1986	ion fois, frt. alid	.79
Sulfuric acid, virgin 100% tanks, works,	sis, int. alid	-
East Coast ton 71.75 95.90	ton lots, frt, alld lb	.84
Midwest ton 80.25 _ Southeast ton 88.15 _	dry basis, fri. alld	ore.
West Coast	Titanium hydride powd. electronics grade, dms	-
is, add \$3-\$4 to above prices and multiply by 1 0.45	s f.o.b. works lb30 200-gal cylinders c.t. same basis lb50	.35
Guif Coast ton 48.00 52.00	Titenium sponge, 99.3%, fiber drums, less than 5,000 lbs. f.o.b.	-
New Mexico	Wks	-
93%, lanks, divd., Northwest ton 60.00 65.00 Sunflowerseedol, crude, f.o.b, Min-	d-a-Tocopherois, 87%, dmskilo 50.08 d-a-Tocopheryl acetate, 81% conc.	-
neapors	dmskilo 57.49 d-a-Tocopheryl scid succinate, cryst	-
a.p.a., run-of-pile, bulk, c.f., Fiaunit-ton 2.75 3.05	drs	-
bulk, gran. c.l., Fla	di-a-Tocopheryl acetate, USP 50-kilo dm. 1000 kilo min kilo. 16.00	18.50
	50% dry powd 50-kilo dm kilo 17.00 Tolu balsam, cns	8.68
	Toluene, petroleum, Ind. or nitration, tanks Atlanta, Ga., divdgal. 73	-
1	Bayonna, N.J., divd gal	2
Tale, dom., grd. New York bgs., c.l.,	Chicago, W. divd	-
workston 84.00 - 99.5%, 325 mesh, bos. c.l.	Fi. Wayne, Ind., divd gal	-
works	New Jersey Metro, divd gal. 73	.69 _
cromzed, bgs., c.i., warks., ton 187,00 238.00 625 mesh, micronized, bas.	Providence, R.I., clvdgal73 Providence, R.I., clvdgal 73	=
c.l., works	80%, 2,4- and 20% 2.6- isomers),	-
ord., Vermont, off-color grd., bgs	p-Toluenesulfonamide, powd., dms.,	-
Imp., Canadian, grd., bgs., c.l.,	m-Tolukfine, tech., bulk	=
Tall oil. crude, Southeast, tanks.	bulk, same basis in so	.75 .64
WORKS, IR. equald ton 135.00 140.00 Tall oil, refd., acid, same basis	p-Tokuldine, tech cast solid, dms., cl., works	1.85
dist., tanks, same basis	Liq., tanks, same basisib. 1.70 fisks, same basisib. 1.95	-
works, int. equald	Toluidines, mixed, o-m-p, tech., liquid, c.l. f.o.b. works	_
Tallow (see Oils, Fais & Waxes market report.) Fellow, faity acids, lech., non-ret.	Colymnazole, drns., 1,000-lb. lots, f.o.b.	-
dms., c l., divd	1.000-ib iole ib eso	-
Olvo	Tragacanth gum. No. 1, ribbons, cos. (b. 38	0.00
rangenne oil. Fla. dms. f.o.b lb. 10.50 11.00	Triacetin lanks, dwd F	5.00
New York, bulk unlisted 5.50	works trums, f.o.b.,	_
Tankage, fert grade (see Nitrogenous procees (ankage). Tannic acid, NF, (luffy, bbls., 1,000- b.	Tributylamina.dms.cl.dwdb. 1.85	1.77
tech. powd. dms	Trichloroacetic scid. tech 300-b.	-
works	USP, 100-lb, drast, frit, equalst 15 gays	-
50-53%, 1.L. cms., 1.0.b. works . gal. 1.59 —	divd.	_]
Tartenc acid, NF, bgs 1.20 1.50 Tellurum, metallurgical, f.o.b. works b. 12.00 Terpin hydrate, NF, imp., cryst., powd.	1,1,1-Trichloroethane, tanke, con- sumers, dvd	
40 MIO OFUMS, T.O.D. SINIA, AF	1.1,2-Trichlorosthane, tanks, f.o.b. works	-
Terpined	Trichlorolaccyanuric acid, cimaib. 381/2 Trichlorolaccyanuric acid, cimaib. 1.25 Trichlorophenoxyacetic acid (see 2,4,5-T).	-
orima dma	drns., 1,500-h, lots dud the 1 3g	_
Terphyl propionate, dms b. 4.50 Tetrachtoroethylene, tech. (see Perchloroethylene). Tetrachtoroethylene, USP, dms., c.l.,	works tanks, f.c.b.	- 1.76
LI, works	dud	_
Teirsethylene glycot, tanks, frt. elld th 67	99%, tanks, same basis	.48 .48
dris. Lob works. The second	f.O.b. works	.271/2
basis	tanks, same basis	-
flake dans to fit aid the control of	works	-
works	Triethylene glycol, tanks, f.o.b. Gurl ib	-
Tetrahydrofurfuryi alcohol tanks, f.o.b.	40-80% lanks, 100% basis, frt	-
Memphis, Tean	Triethylenetetramine tenks, fri egystet in	1.45
Tetrahydrophthalic anhydride dms., c.i., t.i. f.o.b. works	Tri-isobutylene, tenks, clied	.55
tetrabasic.)	alid E	_
Thallium metal, divid	equald, 100%, tanks, frt.	_
Theophylline, USP, anhyd, 50-kilo 4.00 4.50	basis	_
Thiamine hydrochloride, USP 100-kilo	basis	.57
dms., divdkilo. 27.00 31.00 Thiamine mononlinate, USP, 100- talo.,	i inmelinyloipropane triacrylate, t.l.	-
Thiodiphenol, 98%, dms., 1.o.b.	Triphenyl phosphate, drns. 1.1. frt	-
Thiofissin green toners, molybdated,	Tripropylene glycol tanks, frt. alid.	.78
tungstated, PTA, dras	Tris-fhydromethyn nitromethana solid	-
Thioghycolic acid, refd., dms., ton lots 100% acid basis	Trisodium phosphale (see Sodium phosphale, Iribasio	, -
ridendigold marcon, dris., frt. elid. lb, 7.50 reds. dris., frt. elid lb. 5.88 6.12 Thionyl chloride, high-purity, 99.6%,	Tung off, tanks, imp. New York 15 20	5.00 .34
24,000-lb. min. 1.l., dms. frt. equald	6,000 lbs., works 12.85	
40 CHEMICAL MADEUTING DEDOC	Flumeric, Alleppey 5%	-

	.13							
=	Thorium nitrate, purif., dms., 100-lb lots or more, works).). 2.75		Turmeric, Alleppey over 6% lb. Turpentine, crude sulfate tanks, f.o.b.	.70	-	Xylene, potroloum, ind. or nitration, tank, Alliance, La., f.o.b	8
	d-Threonine, dms 10 kilos wkskilo Thyme leaves, French, bgsit Spanish, bgs	. 128.00 . 1.45	=	Southeast works gal.	.70	.80	Bayonne, N.J. divd).).).
	Thyme oil, NF, red, dms kild NF, white, dms kik	20.00	-				Bayonne, N.J. I.o.b. gal Baytown, Tex., f.o.b. gal Chicago, III , divd gal	}. (
	Thymol, NF	52.30	6.15 56.20	U			Fi. Wayne, Ind., divdgal. Guil Coast, spot, barons	.6
	Tin metal (NY composite) ib. Titanium dioxide, anatase, bgs. 20- ton fots, frt. alid ib.	N.A		Ultramarine blue pigments, 550- 2,000			Houston, Tex, divdgal New Jersey Matro, divdgal Xylone, petroloum, Ind. or nitration, tanks	
_	sturry shipments, 60-ton lots, dry ba-	78	./ u -	ibiots, worksib.	1.30 2.20	-	Providence, R.L. divid gal.	1.3 1.4
)	Titanium dioxide, rutile, reg., bgs., 20- ton lots, frt. alid	.81	.84	Umber pigment, burnt, American, irt. equald	.131/2	.15\5	South Bond, Ind., divdgal. nr-Xylane, high purity, tanks, f.o.b Texas City, Texb.	1.3
)	dry basis, fri. alid	.84 per pound	more.	same basis	.13½ 2.70	.1411	p-Xylene, tanks, works	.ī
and . 85	grade, dma	26.50 .30	- .35	divd	200.00	220.00 215.00	2.4-Xylidine, tech , liq , c.l., t.t f.o.b	1.7
	200-gal cylinders c.f., same basis ib. Titanium sponge, 99.3%, fiber drums, less than 5,000 lbs. f.o.b.	.50	-	46% N, agricultural, bulk, divd. West ton Uva-Ursi leaves, bls	210.00 .22		Xyldines, mixed, o-m-p., dms., c1, t1, f.o.b. works	1.5 1.0
	wks	4.85 2.45	-	11			V	
1/2	d-a-Tocopherols, 67%, dmskilo d-a-Tocopheryl acetate, 81% conc dmskilo	50.08 57.49	-	V			\	
	d-a-Tocopharyl acid succinate, cryst., dmsklio d-a-Tocopharol, dmsklio.	78.44 27.40	_					
	dn. 1000 kilo min	16.00	18.50	Valerian root, Belgian, bgs lb. Indian. bgs lb. Vanadium oxytrichloride, 3,000 lb.	.65 .45	.85	Yara yara, 25-ib cns ib. Yeast, pure brewer,a debittered, NF, Sac- charomyces, U, 1.0.b works . ib.	2.8
	50% dry powd., 50-kilo dm kilo Tolu balsam, cns	17.00 7.60 ks	8.68	Cyls., works	5.40	-	Yerba, santa leaves, bis	1.10 2.4 26.5
	Atlanta, Ga., divdgal. Bayonne, N.J., divdgal. Baytown, Tex., f.o.bgal.	.73 .73 .73	-	of V ₂ O ₃ , 550-lb. dms., works lb. fused or flake, per lb. V ₂ O ₃ , 550-lb. dms., works lb.	4.10 3.35	4.94 3.65	Ylang-ylang oil, extra gradelb. grade 1lb. grade 2lb.	23.9 19.0 15.9
•	Chicago, III. divd	.73 .73 .73	2	Vandyke brown, bags., I.I., frt. aquald. lb. Vanilla beans, Madagascar lb. Java, tins lb.	.2711 37.00 27.00	30.00	grade 3 b.	13.0
	Fi. Wayne, Ind., divd gal. Guif Coast, spot, barges gal. Houston, Tex., divd gal.	.73 .68	.69	Imp., dms	6.25 4.75 .64	5.00	7	
	I New Jersey Metro, civd gal. I Philadelphia Pa., civd gal	.73 .73 .73	Ξ	vetiver oil. Bourbon, dms kilo extra	60.50 63.00 16.00	_ 17.00	14	
	Providence, R.I., clivd gal. Toluene cl-leocyanate (mixed isomers), 80%, 2,4- and 20% 2,6- isomers,	.73	-	Haitian b. Java klio Victoria bue toners, molybdated, PMA	28.00 31.00	-	Zein, bos., 2,000-ib. lots ib.	7.50
	jumbo tankcars, divd b. p-Tokienesulfonamide, powd., dms., t.l., works	1.01 3.55	-	dris	6.20 10.40	6.30 _	Zinc acetate, NF, dms	1.80
	m-Toluidine, tech., bulk	3.10 .72 .60	- .75	Vinyl chloride monomer, polymer grade lanks, f.o.b works, ib	.39 .28	-	B ₂ O ₃ , 50-lb. bgs., 20,000-lb. t.l., f.o.b. works	.56
	p-Tokuldine, tech cast acild,dms., cl.,works	1.80	.64 1.85	Vinyl ether, USP, anesthesia, 75-cc. bots., hospitalsbots. 2-Vinylpyridine t.l., dms. workskilo.	1.56 7.81	:	dms. 20,000 lbs. 1.1 f.o.b wks. lb. Zinc chloride, USP, gran., dmskilo Zinc chloride, techsoin. 50%.	.89 9.79
	Tokidines, mixed, o-m-p, tech. liquid	1.70 1.95	Ξ	tanka, works kilo. Vinyltoluena, bulk, f.o.b. lb. Vilamin A, symhatic, dry, pharm. 500,000	7.61 .67	.73¥2	tanks, flo.b. Cleveland, Onio 100 lbs.	20.20
	c.l. f.o.b. works bb. bulk same bass bb. Tolytirlazole, dms., f.000-lb. lots, f.o.b.	1.03 .95	Ξ	Vitamin A, liq. in oil, pharm., 1,000,000 A units per gram. 10 kilo lots kilo	33.00 41.00	-	Freeport, Tex 100 lbs. Old Bridge, N.J	20.20 20.20 20.20
	Tonka beans, Angostura, prime, 1,000-b lols	2.90 8.50	-	per gm	18.70	23.85	Concord, N.C 100 lbs.	27.90 27.90
	Tragacanth gum, No. 1, ribbons, cns. ib.	.38 36.00 12.50	40.00	Vitamin B see Riboflavin and Vitamin B c., cryst., non-sterile, USP (cyanocobalamin), vials. 50-	d Yeast).		Old Bridge, N.J 100 lbs. 70 degree, same basis Cleveland,	27.90 29.70
	Triacetin tanks, dvd. E ib. Tributyl citrate, t.J., drums, f.o.b., works	.75	15.00	gram, lots	8.00	9.75	Concord, NC 100 lbs.	29.70 29.70
	Tributylamine, dms., c.l., divd.	1.70 1.65 1.39	1.77	cium phosphate, 25-kilo dme, kilo. Vitamin B ₁₃ , 0.1% trituration of cryst, B ₁₂ (cyanocobalamin USP) with	10.76	12.75	Ohio 100 lbs. Concord, NC 100 lbs.	33.20 33.20 33.20
	tanks, same basiab. Trichloroacetic sold, tech., 300-lb. dms., c.l., (o.b., worksb.	1.33 .94	-	Mannitol, 25-kilo, dms, kilo, Vitamin B ₁₂ , cobelemin concentrate NE	15.80	-	Zinc chromate, bgs., divd	1.12 1.65
	USP, 100-lb. dms. frt. equald. lb. 1,2,4-Trichlorobenzene, pure, tanks, divd. lb.	.99V2 .81V2	-	with mannitol. 1,000 mcg. per gram, dms, per gram activity Vitemin B ₁₂ , 1% Vitemin B ₁₂ , USP, ab-	19.45	-	Zinc dust pigment type 1 & 2, dms., c.i., f.o.b. piantb. Zinc ethylenecilamine tetracetic acid.	.59
	sumers, divd	.40%		sorbed on reain, 5-kilo dms., 500- gram lots, frt.alld. per gram activity Vitamin B ₁₂ , 1% cobalamin concentrate,	15.65	-	8.4% Zn., ammonia salt soin., t.c., t. t., f.c.b. works ib. 9% Zn., ammonia salt soin., t.c., t.t.,	.58
ļ	worksib. Trichloroethylene, tanks, clivdib. Trichloroisocyanuric acid, clmsib.	.42 .38½	-	NF. absorbed on resin, 5-kilo dms., irt. aild. per gram sclivity Vitamin B ₁₂ , 1% cyanocobalamin in	15.40	-	f.o.b. works	.48 .68
	Trichtorophenoxyacetic acid (see 2,4,5-T). Trichtoline citrate, 65%, sc/m., non-ret. drns., 1,600-lb. lots, divdlb.		-	Sidpar gram activity Vitamin C (see Ascorbic arth)	15.40	-	Zinc motal, high grado, divd lb. Zinc naphthenato, iki, 8% Zn, dms., divd lb.	.44 .95
	works	1.35 1.60	- 1.76	Vitamin O (see Cholecalciferol) Vitamin D ₂ (see Codiver and Fishliver oils) Vitamin E (see A-Tocopherol and Whole a	Burn oll)		Zinc nitrate, tech., flake 300-lb, dms lb. Zinc oxide photo conductive, bgs., c l., frt. alid lb.	.34 .47
1	Tridecyi alcohol, mixed isomere, tanks, divd. lb. Triethonolamine, 85%, tanks, divd. E. ib.	.57 .45	.48	Vitamin H (see Biotin). Violet methyl toner (see Methyl violet tone			Zinc oxide, USP 50-ib. bxs., c.i., iri. afid	.46
	99%, tanks, same basis ib. Triethanolemine lauryt sulfate, tanks, i.o.b. works ib.	.45 .2714	.48 .27⅓	MAI			load-free bgs., c.l., frt. alld lb. Zinc oxide pignient, French process	.40 .41
Į	tanks, same basis	1.33 1.20	-	W			regular, bgs., c.l., frt. alid ib. Zinc phenolaulfonale, purif., gran., 250-lib, dma., t.l., frt. alid ib.	1.62
İ	worke b. Triethyl phosphete, tanks, clvd. b. Triethylene glycol, tanks, f.o.b. Guif ib.	1.82 1.16	-	Wadana O For all	بيبس			8.50 14.50
	Triethylene glycol dipelargonate, tanks f.o.b. works ib. 40-80% tanks, 100% basis, frt.	.47 .29½	_	Wartarin 0.5%, dms., ton lots, frt. alid. New York or Chicago lb. Wheat germ oil, cold-pressed, gal.	.75 16.50	17.50	Zinc resinate precip. 7.2-7.8% Zn, drs., frt. ald	.45
Ì	Triethylanatetramine trake (rt agents in	.36 1.43	1.45	White precipitate, USP, powd., 100-lb,	14.00	11.24	worksb. Zino stearate, USP, bulk, t.lb. Zino sulfate, gran., monohydrate, in-	.17 .92
	Tri-iso-totyl trimeRate, f.o.b. works ib. Tri-isobutylene, tanks, divd , ib. Tri-isoproparciamine, drns., c.i., fri.	.51 .45	.56 -	Wintergreen oil, syn. (see Methyl salicylate Witch hazel bark, ble		11-69	agricultural grade powd., bulk.	26.50
	alid. E	.57% .54%	- !	- 400 mesh, bgs., c.l. works ton 1 325 mesh, bgs., c.l. works ton 1	1.75 34.00 17.00	Ξ	zino yellow (see Zino chromate). Zino-ammonium chloride, bgs., c.l.,	22.50
	basis	.631/2	-	Wollastonite, i.i., i.o.b., producing	64.00	-	Zinc undecylenate, dms., works ib. Zinc formeldebude, pulfovoleta, basic	.42 4.67
	Trimethyloloropane bgs c.l. t.l, divd, ib. Trimethyloloropane triecculate at t	.56V2 .73	.57 -	400 mesh	140.00 1 160.00	41.00	200-lb. dms., frl. alidb. Zircon gran, bgs., bulk al., works. ton Zircon milled bgs., 200 and 325 mesh.	1.05 65.00
	dime., f.o.b. works b. Tripentaerythritol, tenks, frt. ald., E. b. Triphenyi phosphate, dms., t.i., frt.	1.50 1.00	=	Wormwood of (see Chenopodium of, NF)		-	C.I., Works	26.00 97
	Tripropylene glycol tanks, frt. alid.	1.84	.78	V	31.00	36.00	o.l., 30,000 tbs. min., works; b. 22% ZrO ₂ , same besisb. Zirconium hydride, powd., electronic	.78 .31
	Tris-(hydromethyl) nitromethane, solid, I.I. works ib.	.64 .605	<i>-</i>				grade, dms., works ib. Zirconium oxide, powd., comi., dms., 2,000 lbs, min ib.	4.25 7.25
	i-Tryptophan, cins, 25-kilo lots kilo Tung of tanks inc. New York	hale, tribas 62.00 .32	sko) 65.00 .34				insulating, stabilized, 325°F same basis	7.20 3.31
	Tungstic acid 921/25, dms., 1,750- 6,000 lbs., works lb. Turmeric, Allephey 5% lb.	12.85 .65		Xenther gum; food 300-lb, dms, f.o.b, works	5.65	8 20	insulating unstablized, 325°F same :	8.65 2.82
'n	RTER Sentember 20			ind., grade, same basis ib.	4.54	6.20	Zirconium oxychloride, siq., atns. 6-ton. iots, works	91

US imports of chemicals and related materials are reported in this section by CPI material. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

US chemical imports/exports are tabulated monthly in the market reports.

(1279 lbs) (Hide) Hamburg, 8/24.
ACETYL CHLORIDE Mariborough 74 dms (30707 lbs) (Hekle) Rotterdam, 8/24. ACIO CHROME BLACK T Golf & Pago 10 dms (628 lbs) (American Alabama) Hong Kong, 8/25. ACRYLAMIDE Universal Transcontinental 480 bgs

(26984 lbs) (Ming Sun) Kobe, 8/22.
ACTIVATED CALCIUM CARBONATE H M Royal 6780 pkg (344981 lbs) (American New Jors) Kobe, 6/23. gussa 800 bgs (26984 lbs) (Koln Express) Bromer-Oegusaa 800 bgs (26984 lbs) (Koln Express) Bramer-haven, 8/26. MAR AGAR Harold Papper 40 dms (4850 lbs) (Ever

Guest) Osaka, 8/18. Janel Inti Fwdrs 50 sks (4440 ibs) (Koln Exprose) Hamburg, 8/26. LGNATE LV Proten 800 bgs (41411 lbs) (Atlantic Conveyor) Gothanburg, 8/25. MPHA PICOLINE 1 bks (1432778 lbs) (Lucor Manor)

Rollerdam, 8/26. ALUMINIUM OXIDE Norton Inti 700 pbx (39440 lbs) (Dart Allanika) Bremerhaven, 8/26. ALUMINUM HYDROXIDE Gluiki 160 dms (75838 lbs) (Al-Igntic Song) Rotterdam, 8/25. AUMINUM NITRATE Charkly Chemical 5 dms (1290 lbs)

(Ming Sun) Yokohama, 8/22. MMONIUM ACETATE 300 bgs (33400 lbs) (Helde) Rotterdem, 8/24.

AMMONIUM BIFLUORIDE Daniel F Young 1448 bgs (7398 bbs) (Zim Tokyo) Osaka, 8/19.

AMMONIUM CHLORIDE 20 plt (40635 bbs) (Koin Express) Greenock, 8/26. AMYL BUTYRATE MDSI 1 dms (425 lbs) (Alexandra)

Antwerp, 8/19. ASCORBIC ACID 400 bxs (23968 lbs) (TFL Franklin) Bremerhaven, 8/21. Rona Pearl 350 bxs (17354 lbs) (TFL Franklin) Bremer-BARBITURIC ACID 75 dms (17857 lbs) (Ming Sun) Kobe,

8/22. BARIUM CARBONATE Cometals 5440 ctn (303424 lbs) (American New Jers) Kobe, 8/23. BARIUM HYDROXIDE Cometals 2720 bgs (151712 lbs) (American Alabama) Kobo. 8/25. (Amuseum (1995) | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995

dena) Ganoa, 8/29. ASIL Agricola 160 bga (8618 lbs) (Alibrahimiya) Alexan-George A Eldi 240 bgs (13228 lbs) (Alibrahimiya) Alexandria, 8/25.

arigina, 8/25. Ludwig Mueller 500 bgs (27558 lbs) (Alibrahimiya) Alex-andria, 8/25. SELADONNA E. L. Scott 3 crt (397 lbs) (Heogh Carrier) Bombay, 8/28. BENZALDEHYDE Janei Inti Fwdrs 76 dms (36526 lbs) (Stuttgari Express) Rotterdam, 8/19. SENZYL ALCOHOL CDF Chimie 1 con (41182 lbs) (Alex

andra) LeHavre, 8/19. Metacomet 76 dms (36526 lbs) (Koln Express) Antwerp, 8/26.
Chemical Dynamics 33 dms (14550 lbs) (Alexandra, Rotterdam, 8/19. Penson 78 dms (37143 lbs) (Alexandra) Rotterdam Chemical Dynamica 39 dms (17196 lbs) (Alexandra

Rollerdam, 8/19.
9ETA NAPHTHOL 2 NAPHTHOL Orlex Chemical 600 bgs (33496 lbs) (Ming Sun) Kobe, 8/22. BISHEXAMETHYLENETRIAMINE Traipek 1 tnk (41491 ibs) (Alexandra) Rollerdam, 8/19.
BISMUTH TRIBROMOPHENATE 4 dms (469 lbs) (Dari Altantics) Felixstows, 8/26. BISPHENOL Duniap Alpars & Mott 80 dms (32872 lbs

(Allantic Conveyor) Liverpool, 8/25. BRAZILIAN ORANGE OIL 250 dms (104167 lbs) (Ameri can Hawaii) Santos, 8/21.
BUTANEDIOL DIMETHACRYLATE Degussa 15 dms (7208 lbs) (TFL Franklin) Bremerhaven, 8/21. BUTYL BENZOIC ACID 288 lbgs (18191 lbs) (Dart Conti-BUTYL METHACRYLATE 1 tok (39925 lbs) (Alexandra

CAFFEINE ANHYDROUS Amsigamated Metal 200 pkg (13228 tos) (George Washington) Kobe, 8/24.
CALCUM FLUORIDE North American Philips Light 64 dms (16931 tos) (Laust Maerak) Kobe, 8/21.
CALCUM LACTOBIONATE Panaipina 40 dam (8470 tos) (Dart Continent) LeHavre, 8/19.
CARBON GRAPHITE Gunze New York 38 mlx (30928 lbs) and (Ming Sun) Kobe, 8/22.

(Ming Bun) Kobe, 8/22. CARBOXYMETHYL CELLULOSE SAP Atlantic 1280 bgs (71112 lbs) (American Hawali) Rio D Janeiro, 8/21. 88iA Daarnhouwer 187 bgs (22119 lbs) (Hoegh Car-fer) Padang, 8/28. laanhouwer 1358 bgs (179593 lbs) (Hoegh Carrier) Padang, 8/28.

A A Sayla 77 bgs (11193 lbs) (Hoegh Carrier) Padang 8/28. Rus Fwdg 321 bgs (44505 lbs) (Hoegh Carrier) Padarig. 8/28. Durkes Foods 250 bgs (33841 lbs) (Hoegh Carrier) Padeng, 8/28. Gel Spice 367 bgs (44209 fbs) (Hoegh Carrier) Padeng, 8/28.

McCormiok 188 bgs (22456 lbs) (Hoeigh Carrier) Padang, 8/28. Mincing 17dg 91 bgs (11303 lbs) (Hoeigh Carrier) Padang, 8/28. George Uhe 84 ctn (9187 lbs) (Hoeigh Carrier) Padang, 8/28. orza. Louis Furth 225 oln (11396 lbs) (Hoegh Carrier) Padeng 8/24

ACETAMINOPHEN Votainer Consolidation Servi 20 dma | CASSIA William E Martin 63 ctn (5926 lbs) (Hoegh Carrier) Padang, 8/28. CAUSTIC SODA Contichem 1 bks (7784362 lbs) (Stolt Aquemarine) Antwerp, 8/22. CELERY SEED Allari Brothers 510 bgs (87482 lbs) (8ee

Land Express) Rotterdam, 8/21 Malagasy Agencies 255 bgs (33731 lbs) (See Land Express) Rotterdam, 8/21. William E Martin 185 bgs (24471 lbs) (Jebel All) Dubal,

6/25. CHLORPORPAMIDE Silvey Shpg 166 dma (10831 lbs) (Carmen Carina) Rijeka, 8/20, CHOLESTYRAMINE USP 12 dms (3031 lbs) (Almudena) Leghorn, 8/29.
CINNAMIC ALDEHYDE Intermar Steamship 36 dms

(19561 ibs) (TFL Franklin) LeHavre, 8/21. CITRIC ACID A J Murray 396 bgs (39967 ibs) (Vishva Prafulla) Genoa, 8/22. COPPER CYANIDE 210 dms (40241 lbs) (Sea Land Express) Rotterdam, 8/21. CORIANDER WHOLE Patel Brothers 5 bgs (452 lbs)

(Heogh Carrier) Bombay, 8/28. COUMARIN 270 dms (32024 lbs) (Laust Maersk) Hong Kong, 8/21. CRESYLIC ACID Max Gruenhut 27 dma (13274 lbs) (Nedloyd Rotterdam) Rotterdam, 8/26. CRUDE IODINE 340 dms (39127 lbs) (Laust Maerak)

Tokyo, 8/21. CUMIN SEED Milltzer & Muench 800 bgs (72752 lbs) (Koln CUMIN SEED MIIITZER & MUBRICH GOD DGS (72732005) (NOTE Express) Hamburg, 8/26.

CYANURIC CHLORIDE Deguess 180 dms (43254 lbs) (Stuttgart Express) Antwerp, 8/19.

CYCLOPENTANONE Rhone Pouleno 10 dms (4850 lbs) (Dart Continent) LeHavre, 8/19.

DEHYDROCHOLIC ACID USP XXI Byron Chemical 11 dms (1312 lbs) (Alburtlens) Lanhorn, 8/29.

dms (1312 lbs) (Almudena) Leghorn, 8/29.

DICHLORODIFLUOROMETHANE 2 con (71568 lbs)
(Stuttgart Express) Greenock, 8/19.

DICYLOHEXYL CARBODIMIDE Bristol Myers 41 cs (2738 lbs) (Laust Maersk) Tokyo, 8/21.
DIETHYL CARBAMAZINE CITRATE Actex 25 dms (1361 iba) (Laust Maersk) Hong Kong, 8/21. DIETHYLE OXALATE Rhone Poulenc 72 dms (34603 lbs)

(Nedlloyd Rouen) LeHavre, 8/18.

DIETHYLETHANOLAMINE 1 tnk (40388 lbs) (Nedlloyd Rotterdam) Bremerhaven, 8/26.
DISOCYANATE HEXAMETHYLENE Prochimie Intl 1 trk (38536 ibs (Stuttgart Express) Greenock, 8/19.

DILL WEED Ludwig Mueller 180 bgs (9921 ibs) (All-

brahimiya) Alexandria, 8/25. DIMETHYLANILINE 1 lnk (40080 lbs) (Stutigart Express) Greenock, 8/19.

1 tnk (38845 lbs) (Nedlloyd Rauen) Bremerhaven, 6/18.

1 tnk (38845 lbs) (Nedlloyd Rauen) Bremerhaven, 6/18.

IPHENYL OXIDE 50 dms (24526 lbss) (American New Jars) Kobe, 6/23.

DIPHENYLAMINE 1 tnk (38771 lbs) (Koin Express)

OIPHENYLAMINE 1 Ink (39771 los) (kdir zapros)
Greenock, 8/28.

DUNDICUT CHILLIES John H Eiton 600 bgs (33202 lbs)
(American Alabama) Khor Fakkan, 8/25.

Louis Furth 600 bgs (33202 lbs) (American Alabama)
Khor Fakkan, 8/25.

Mincing Trdg 600 bgs (33202 lbs) (American Alabama)
Khor Fakkan, 8/25.

Morris J Golombeck 1 200 bgs (65850 lbs) (American
Alabama) Khor Fakkan, 8/25.

Quality Spice 600 bgs (33202 lbs) (American Alabama)
Khor Fakkan, 8/25.

FENUGREEK LEAVES Patel Brothers 2 ctn (26 lbs) (Hoegh Carrier) Bombay, 8/28. FLUOROBENZENE 50 dms (24471 lbs) (Koln Express)

FLUOROBENZENE SU dina (244)
Bramerhaven, 8/26.

GAMMA ACID DRY Ciba Gelgy 152 dms (36191 ibe)
(Stuttgart Express) Hamburg, 8/19.

GELATIN Kushne & Nagel 100 dms (10701 ba) (Stuttgart Express) Greenock, 6/19.

Olympia Adhesive 680 bgs (38226 ibe) (Laus Maerak)
Hong Kong, 8/21.

GERANIOL J Manhelmer 10 dms (4233 ibe) (Ming Sun)

Yolk J Manhelmer 10 dms (4233 ibe) (Ming Sun)

Yokohams, 8/22.
GLUCONATE Berlex Laboratories 69 dms (5015 lbs)

GLUCONATE Benex Laporatories of drift (2010 109) (Bruttgart Express) Hamburg, 8/19. GLYCERINE Helm New York Chemical 1 bks (824915 55s): (Lucor Manor) Rotterdam, 8/26. GLYCXYLIC ACID 68 dms (40476 fbs) (Dert Continent)

N BUTHYLMETHACRYLATE Beemsoth Kerner 1 tnk (40300 lbs) (Nedlloyd Rotterda) Rotterdam, 8/26. Degussa 1 con (38625 lbs) (Stuttgart Express) Bremer-haven, 8/19. 1 lot (39154 lbs) (Nedfloyd Rouen) Rotterdam, 8/18. APHTHOL Top Tex 20 hob (2478 lbs) (Stuttgart Ex-EPOXY RESIN H & C ind 72 dms (39334 lbs) (Ever Guest Keefung, 8/18.
ETHANOL AND SOLUTION Star Liquor Imports 2 tnk
(78837 tbs) (Kohn Express) Greenock, 8/28.
ETHYL HEXANOIC ACID 1 tnk (40521 lbs) (Alexandrs)

NAPHTHOL Top Tex 20 hob (2478 lbs) (Stuttgart Express) Bremerhaven, 8/19.

NICOTINE SULFATE Black Leaf Products 25 dms (12236 lbs) (Jabel All) Dubel, 8/25.

NICOTINAMIDE Vitachem Relity Tar 800 bgs (44821 lbs) (Stuttgart Express) Antwerp, 8/19.

Vitachem Relity Ter 1,200 bgs (80,336 lbs) (Koin Express) Antwerp, 8/26.

NIGROSINE Penson 240 dms (14,974 lbs) (Lauet Maersk) Horg Kons, 8/21. ETHYL HEXANOIC ACID 1 th (4021 ba) (visital Rotterdam, 8/19.
ETHYLENE VINYL CHLORIDE COPOLYME Toyo Boda 788 bgs (42752 bbs) (Ever Guest) Tokyo, 8/18.
FENNEL SEEDS Agridola 820 bgs (47840 bbs) (Allbrahmiys) Alexandria, 8/25.
Griffith Laboratories 187 bgs (24324 bbs) (Jebal AllDubal, 8/25.
186 bgs (24603 bbs) (Hoogh Carrier) Bombay, 8/28.
Patel Brothers 8 bgs (562 bbs) (Heogh Carrier) Bombay, 8/28.

Singepore, 8/20. AUSK KETONE 60 dms (7196 lbs) (George Washington

Hong Kong, 8/21 80 dms (7,302 lbs) (Hoegh Carrier) Colombo, 8/28, 9XALIC ACID All Freight intl 728 bgs (41,887 lbs) (Hanjin Yokohama) Keelung, 8/26.

PALM KERNEL OIL 2 bks (3,308,080 lbs) (Stok Aquamarine) Belawan Dell, 8/22, 1 bks (1,124,346 lbs) (Stoft Aquamarine) Pasir Gudang,

bks (4,440,578 lbs) (Stolt Aquamerine) Pt Kelang. 8/22. PAPRIKA Griffith Laboratories 850 bgs (43,287 lbs) (Jebel All) Velencia, 8/25. PAPRIKA OLEORESIN Kemin ind 4 dms (1,867 lbs) (Almu-

PAPRIKA OLEORESIN Kemin ind 4 dms (1,49) Lbs/(4ms) Vsiencia, 8/28, dens) Vsiencia, 8/28, PARAFFIN PETROLEUM WAX Dura Commodits 720 bgs (40,573 lbs) (Dert Aliantics) Felixsows, 8/28. (40,573 lbs) (Dert Aliantics) Felixsows, 8/28. PARAFFIN WAX Panabhris 82 cm (76,102 lbs) (George Washington) Kobe, 8/24. PENTAERYTHRITOL. Degussa 500 bgs (22,256 lbs) (Stuttgart Express) Bremerhaven, 8/19, 8/11 bgs (44,438 lbs) (Koln Express) Bremerhaven, 8/19, 8/11 bgs (44,438 lbs) (Koln Express) Bremerhaven, 8/19, 8/11 bgs (44,438 lbs) (Koln Express)

GLYCXYLIC 'ACID 68 dms (40476 lbe) (Dert Continent).
LeHavre, 8/19.
GUAR GUM Celenese 782 bgs (38773 lbs) (Jebel All).
Dubal, 8/25.
Potypro Inti 1590 bgs (80906 lbs) (Jebel All) Dubal, 8/25.
Tic Gums 760 bgs (38888 lbs) (Jebel All) Dubal, 8/25.
Tic Gums 760 bgs (38888 lbs) (Jebel All) Dubal, 8/25.
Colony imports & Exports 200 bgs (40818 lbs) (Jebel All) Dubal, 8/25.
GUM KARAYA Celanese 200 bgs (35891 lbs) (Jebel All)
Dubal, 8/25.
Colony imports & Exports 213 bgs (38083 lbs) (Hobgh Carrier) Bombay, 8/28.
GUM OLIBANUM PEA SIZE Max Van Pele 20 is (8704 lbs) (Hobgh Carrier) Bombay, 8/28.
Tear Size Max Van Pele 30 bs (6704 lbs) (Hobgh Carrier) Bombay, 8/28. 881 bgs (44.4.36 lbs) (Koin Express) Brenter28.
Dequees 881 bgs (44.438 lbs) (Koin Express) Brenterhaven, 8/28.
PERI ACID Leyder Customs Expediters 100 pkg (13.448 lbs) (Beorge Washington) (Kobs, 8/24.
PHENYLPROPANOL Citemical Dystamics 8 dms (2.846 lbs) (Alexandra) Rotterdam, 8/19.
POLYETHYLENE Mensen Marire Supply 700 etn (37,395 lbs) (Zim Tokyo) Oseks, 8/19.
POLYTETRAF-LUROTHYLENE / Bunstomo of America 180 dms (19.783 lbs) (Lsust Masirsk) (Kobs, 8/21.
POLYTETRAF-LUROTHYLENE / Bunstomo of America 180 dms (19.783 lbs) (Lsust Masirsk) (Kobs, 8/21.
POLYTETRAF-LUROTHYLENE / Bunstomo of America 180 dms (19.783 lbs) (Lsust Masirsk) (Kobs, 8/21.

POLYVINYL CHLORIDE Montain HYDROFLUORIC ACID BDP Intil 136 dms (73458 lbs) (Zkm Tokyo) Osaka, 8/19. Daniel F Young 68 dms (36654 lbs) (Zim Tokyo) Osaka. 8/19. IRON SULFATE 19 ctn (895 lbs) (Stuttgart Express) Brs-

J ACID Pneson 280 dms (35186 lbs) (American New Jers Kobe, 8/23, LEMON OIL Citrus & Alfied Essences 10 dms (4422 lbs)

(Holstensalor) Buenos Aires, 8/19. LITHOPONE Ore & Chemical 700 bgs (39700 lbs) (Nedlicyd Rotterda) Antwarp, 8/26. MAGNESIUM CARBONATE George Uhe 55 bgs (26109

lbs) Helds) Hamburg, 8/24. INESIUM HYDROXIDE USP Roussel 800 bgs (46914

ibs) (Ming Sun) Kobe, 8/22. IAGNESIUM OXIDE Desmo Chemical 680 bgs (38228

ibs) (Ming Sun) Kobe, 8/22. USP Led Roussel 331 dms (39405 lbs) (Ming Sun)

Kobe, 8/22. AALABAR BLACK PEPPER A Kazemi 216 bgs (3497 lbs)

(American Alabama) Singapore, 8/25. DMT 430 bgs (67876 ibs) (American Alabama) Singa

pore, 8/25. Gel Spice 643 bgs (101496 lbs) (American Alabama)

Singapore, 8/25. John S Connor 214 bgs (33828 be) (American Alabama)

Singapore, 8/25. AANDARIN OIL John D Walsh 4 dms (948 lbs) (Zim Heifa)

ibs) (Koin Express) Bremerhaven, 8/26. ENTHOL CRYSTALS Berje 40 dms (2567 lbs) (Stuttgan

Express) Hamburg, 8/19.
MERCURIC IODIDE RED ACS Troy Chemical 10 dms

(2224 lbs) (Alexandra) Felixstows, 8/19.
METHYL CELLULOSE Milwans 300 bgs (13968 lbs) (Han-

jin Yokohama) Yokohama, 8/25. 365 dms (44952 ibs) (Hanjin Yokohama) Yokohama,

(Nediloyd Rotterda) Antwerp, 8/25.
POTTABIUM CHLORATE Altransport 10 dms (2.00.
(Atlantic Song) Le Havre, 8/25.
POTASSIUM PERMANGANATE American Inti Chemical 360 dms (43,255 lbs) (Sea Land Express) Rottermerheven, 8/19. DPHYTOL 1 tnk (35715 lbs) (Atlantic Song) Rotterdam 8/25.

dem. 8/21. POTASSIUM SORBATE Kenemateu Gosho 400 dms (41,801 bs) (Hanjin Yokohama) Kobe, 8/25. 390 dms (42,320 bs) (Stuttgart Express) Rolterdam.

8/19. PROPENYL CYANOACETATE Berno Shpg 5 dma (2,480 ibs) (Ming Sun) Kobs, 8/22. PROPYL PARABEN Kanamatsu Goeho 195 dms (22,231 ibs) (Hanjin Yokohama) Kobs, 8/25. OUININE Pan American Container 40 dms (1,213 ibs) (American Alabarna) Singapore, 3/25. RARE EARTH CHLORIDE Nissho Iwai American 500 dms (205,974 lbs) (American New Jors) Kobs, 8/23.

SACCHARIN SODIUM Silvey Shpg 320 pkg (38,098 ibs) (George Washington) Kobe, 8/24. SESAME OIL House of Lawrence 650 ctn (27,227 ibs) (Zim Tokyo) Yokohama, 8/19. Sun Lee 17dg 970 ctn (39,592 ibs) (American Alabama)

Hong Kong, 8/25. SILICONE 1 tnk (39,793 lbs) (Helde) Rotterdam, 8/24. SODRUM ALGINATE Kelco 800 ske (41,780 lbs) (Stuttgert Express) Greenook, 8/19.

SOD(UM BICHROMATE Alpha Intl 380 bgs (44,727 fbs)
(Bakkafoss) Rotterdam, 8/24.

SODIUM BROMATE Ameribrom 376 dms (78,748 lbs)

SODIUM BROMATE Ameribrom 376 dms (78,748 lbs)
(Zim Haifa) Haifa, 8/16,
SODIUM CHLORITE Selwo Bussan America 260 dms
(32,099 lbs) (Zim Tokyo) Yokohama, 8/19.
SODIUM ERYTHORBATE Pmp Fermentation Products
320 dms (38,095 lbs) (Aling Sun) Kobe, 8/22.
Pmp Fermentation Products 701 mix (78,812 lbs) (Ming Sun) Kobe, 8/22.
SODIUM FERROCYANIDE Degussa 880 mix (108,996 lbs) (Buttort Eversast Antwerd, 8/19. Bercelona, 8/16. NGANESE DIOXIDE ORE Lassen Intil Fwdrs 1 os (375 MERCURIC IOUDE RED ACS Tray Chemical 10 dms (1175 bb) (Hoegh Carrier) Bombay, 8/28. METHALLYL CHLORIDE Stolt Tank Contelners 3 tnk (107186 lbs) (Ming Sun) Kobe, 8/22. METHYL BUTYRATE C 133 Containership Agency 3 dms

BODIUM FEMOCYANIDE Deguesa 600 max (100,896 lbs) (Sluttgart Express) Antworp, 8/19.

SODIUM FLUORIDE Trans World Shpg 700 bgs (38,973 lbs) (Ever Guest) Osska, 8/18.

SODIUM HEXAMETAPHOSPHATE 16 bbg (35,468 lbs)

SODIUM HEXAMETAPHOSPHATE 16 DDG (38,466 106) (American New Jers) Kobe, 8/23. SODIUM HYDROSULFITE Acetocorp 160 dms (42,240 bs) (Ming Sun) Keeking, 8/22. Ferro Metal & Chemical 161 dms (42,417 bs) (Bak-METHYL HEPTENONE 80 dms (33883 lbs) (Ming Sun) kalosa) Rotterdam, 8/24. SODIUM LAURYL SULFATE Continental Chemical 875

METHYL ISOPROPYL KETONE Pan American Container
4 drns (1631 lbs) (Helde) Rotterdam, 8/24.
METHYL PARABEN Karamatsu Goeho 660 dms (42580 SODIUM LAURYL SULFATE Continents (40,036 ba) (Ever Guest) Keelung, 8/18.
Continental Chemicals 800 bgs (44,797 ibs) (Helde)
Rotterdam, 8/24.
SODIUM METABISULPHITE Rhenus Transport Intl 16 pti
(43,953 lbs) (Zim Helfa) Barcetona, 8/16.
SODIUM METAPERIODATE F W Myere 10 crt (2,458 lbs) lbe) (Hanjin Yokonama) Koba, 8/26. METHYL SALICYLATE Exim Line 958 cm (36076 lbs) (Hanjin Yokohama) Keelung , 8/25. METHYL METHACRYLATE Deguesa 1 con (40719 lbs)

(Koin Exprekss) Bremerhaven, 8/26.
METHYL METHACRYLATE BUTADIENE STYRENE M &
T Chemicale 350 bgs (15842 fbs0 (George Washington) Tokyo, 8/24. 2152 pkg (97223 ibs) (George Washington) Tokyo, 8/

SODIUM METAPERIODATE F W Myers 10 crt (2,458 lbs)
(Dart Content) Felixstows, 8/19.
15 mix (1,698 lbs) (Dart Atlantics) Felixstows, 8/26.
SODIUM METASILICATE Browning Chemical 400 bgs
(44,092 lbs) (Saud Riyach) Leghorn, 8/20.
SODIUM SACCHARIN Globs Shpg 20 dms (2,205 lbs)
(Hanjin Yokohams) Kobs, 8/25.
450 dms (47,399 lbs) (Ming Sun) Busan, 8/22.
SODIUM TRIPOLYPHOSPHATE 780 bgs (44,843 lbs)
(Zrri Helfa) Halfs, 8/16.
560 bbg (867,906 lbs) (Nedloyd Rouen) Antwerp, 8/16.
STRYCHNINE SULFATE H R Herkins 10 bxs (486 lbs)
(Hosph Carrier) Colombo, 6/28. MINT LEAVES Patel Brothers 2 ctn (26 lbs) (Hoegh Carrier) Bombay, 8/28.
MONOBUTYL META CRESOL Stolt Tank Containers tnk (35183 lbs) (Ming Sun) Kobe, 8/22.
MONOSODIUM GLUTAMATE Ajinomoto 3900 bgs MONOSODIUM GLUTAMATE Ajinomoto 3900 bgt (223480 bb) (Bislip Bay) Santos, 8/22. 730 dms (78001 bb) (Bislip Bay) Santos, 8/22. MUNTOK WHITE PEPPER Central Indonesia Trdg 240 bgs (44092 bb) (Saudi Riyadh) Singapore, 8/20. DMT 120 bgs (22046 lbs) (Saudi Riyadh) Singapore, STRYCHNINE SULFACE IT IN 1828. (Hoegh Carler) Colombo, 6/28. STYRCHNINE ALKALOID H R Harkins 60 bgs (2,910 lbs)

(Hoegh Carrier)Colombo, 8/28. SULFÀMETHAZINE 40 cms (4.894 be) (Carmen Carina) 6/20. Gel Spice 1221 bgs (220460 lbs) (Saudi Riyadh) Singa

pore, 8/20. Jantzen & Deeke 300 bgs (55115 lbs) (Saudi Riyadh) Singapore, 8/20.
Ludwig Mueller 120 bsg (22046 ibs) (Saudi Riyadh)
Singapore, 8/20.
Morris J Golombeck 180 bgs (33069 ibs) (Saudi Riyadh)

SULFAMETHAZINE 40 dms (4.694 be) (Carmen Carina)
Rijaka, 8/20.

SULFAMETHOXAZOLE Shionogi 51 dms (6.184 lbs)
(Laust Maerak) Kobe, 8/21.

SULFAMIC ACID American Inti Chemical 900 bgs (45.269 lbs) (Ming Sun) Keelung, 8/22.

Hudson Shpp 860 bgs (4.409 lbs) (Ever Guest) Kaohsiung, 8/18.

900 bgs (45.450 lbs) (Ever Guest) Kaohsiung, 8/18.

SULFAGUINOXALINE Universal Transcontinental 100 dms (12.787 bs) (Heide) Rotterdam, 8/24.

TARTARIC ACID Terteric 440 bgs (44.974 lbs) (Almudens) Leghorn, 8/29.

TERPENYL ACETATE America Chemicals 90 dms (43.89 bs) (Jabel All) Fos, 8/25.

TETRAFLUOROETHYLENE 8. HEXAFLUOROP Sunitomo of America 840 dms (101.853 lbs) (Laust Maerak) Tokyo, 8/21.

120 dms (7.407 lbs) (Ming Sun) Kobe, 8/22.

THYME LEAVES E L Scott 240 eks (28.101 lbs) (Almudens) Valencia, 8/29. Tokyo, 8/24. MUSK XYLENE 100 pkg (11618 lbs) (Koin Express) Greenock, 8/26.

dana) Valencia, 8/29. Herbert Marmorek & Sons 293 bgs (32,297 lbs) (Almu-

Herbert Mamorek & Sons 293 bgs (32,297 lbs) (Armuddens) Valenics, 8/29.

TIN OXIDE Albs Fwdg 125 dms (34,722 lbs) (Ming Bun) Yokohama, 8/22.

TITANIUM DIOXIDE Blue Beil Chenrical 1,800 bgs (63,004 lbs) (Sea Lad Express) Rotterdam, 8/21.

N L ind 4,00 bgs (207,455 fbs) (Sea Land Express) Rotterdam, 8/21.

Som 1,800 bgs (91,095 lbs) (Sea Land Express) Rotterdam, 8/21. dam, 8/21. Rhone Poulenc 2,400 bgs (120,107 lbs) (Nedlicyd Rot-

tarda) Le Havre, 8/26. 4,000 bgs (230,160 lbs) (Nediloyd Rouen) Le Havre, 8/18. N L Ind 8,100 logs (416,074 lbs) (Nadiloyd Rouen)

Aniwerp, 8/18.
TOLUENE DI-BOCYANTE Klockner Chemical 228 dms TOLUENE DI-BOGYANTE RIOCKRET CHEMICAL 223 cms (137,223 lbe) (Holstensallor) Buenos Alree, 8/19.
Leschsco 2 Ink (80,071 lbs) (Aliantio Song) Bremerhaven, 8/25.
TRIETHYLAMINE IMCO 1 lnk (38,140 lbs) (Helde) Rotter-

dam, 8/24.
TRIMETHYLOLPROPANE Leschaco 1 trik (40,432 lbs) TRIMETHYLOFAUD-FAUD-ROBASS Rotterdam, 8/19.
(Stuttgert Express) Rotterdam, 8/19.
TRIPENYL PHOSPHATE 1,280 bgs (73,545 bs) (Atlantic Conveyor) Liverpool, 8/25.
TRISODIUM PHOSPHATE Rhone Pulenc 340 bgs (38,977 bs) (Medioyd Rouen) Le Havre, 8/18.
TURMERIC OLEORESIA Meer 50 pkg (7,280 sbs) (Visitiva Prafuse) Ageotras, 8/22.

ULTRAMARINE BLUE Hiton Davis 400 bgs (22,597 bb) (Till Franklin) Rotterdam, 8/21. mith Chemical 400 bgs (22,597 lbs) (Till Franklin) Rot-

Smith Chemical 400 bgs (22,897 ibs) (7fi Frankin) Hotterdam, 8/21.

ULTRAMARINE PIGMENT Whittaker Clark 8, Deniets 720.

bgs (41,310 ibs) (Atlantic Conveyor) Liverpool, 8/26.

UREA FORMAL DEHYDE 754 dms (58,197 ibs) (Zim Haifs) Halfs, 8/16,

UREA MOULDING COMPOUND 41 pkg (45,194 ibs) (Zim Haifs) Halfs, 8/16,

ZINC CHLORIDE 800 bgs (46,732 ibs) (Bakkaifoss) Rollerdam, 8/24,

ZINC PYRITHIONE 172 dms (43,889 ibs) (Alexandra) Bremen, 8/19,

ZINCONIUM OXIDE Magnesium, Elektron, 180 dms, (40,873 jbs) (Koin Express) Greenook, 8/28,

CHEMICAL MARKETING REPORTER

and a content to the distribution of the content of

CHEMICAL MARKETING REPORTER September 29, 1986

2.40 26.50 23.93 19.09 15.90 13.04 i. 2,000-lb lots. lb.
lale, NF, dms. lb.
dlhydrate, bgs., t.l., works. lb.
ate, tech., 43% ZnO, 37%
jO₂, 50-lb bgs., 20,000-lb t.l.,
b.b. works. lb.
37% ZnO, 49% B₂O, 250-lb
ms. 20,000 lbs. ll. fo.b wks. lb.
ride, USP, gran., dms. kib
onde, tech., soln. 50%,
nks, fo.b. Cleveland,
hio. 100 lbs. ort, Tex. 100 lbs.
ridge, N.J. 100 lbs.
gree, same basis Cloveland,
hio. 100 lbs.
ord, N.C. 100 lbs.
ridge, N.J. 100 lbs. ree, same basis Cleveland, to 100 lbs pricord, NC 100 lbs d Bridge, NJ 100 lbs Concord, NC 100 lbs.
Did Bridge, NJ 100 lbs.
gree, same basis Cleveland,
nlo 100 lbs.
concord, NC 100 lbs.
lol Bridge, NJ 100 lbs.
mate, bgs., dlvd. lb.
lide, dms., c.l. lb.
pigment type 1 & 2, dms., c.l.,
lb. plant. lb.
rienediamine teiracetic acid,
4% Zn., ammonia satt soin.,
lt. I, f.o.b. works lb.,
ammonia salt soin., t.c., t.t.,
ammonia salt soin., t.c., t.t. 33.20 33.20 33.20 1.12 1.65 .59 ammonia sell soln., t c., t. t., b. works ... b. works ... b. works ... b. works ... l., conc., dms., t.l., rks, frt. equald. ... b. high grade, divd. ... b. thenato, ikt. 8% Zn, dms., tech., flake 300-lb. dms. .4734 USP 50-lb. bxs., c.l., fr .461/2 .59% pigment, American process, d-free bgs., c.l., frt. alld... b p pigment, French process ular, bgs., c.l., frt. alld... b. polaulfonate, purif., gran., blb, dms., t.i., irt. elid. . . . ib. 1.62 nethione, 48% dispersion, ., f.o.b, works lb. grade ate precip. 7.2-7.8% Zn, i., frt. alid. b. fluoride, dms., c.l., t.l. e. USP. bulk, t.l. e, gran., monohydrate, mat. grade 38% Zn., bgs., c.l., 100 bs. 26,50 22.50 .42 4.67 4.70 1.05 165.00 h. bgs., bulk a.l., works. ton st bgs., 200 and 325 mesh, works. ton cetate scin., 25% ZrO₂, dms., 30,000 tbs. mb., works. b., 78 TO, same bests. b. hydride, powd., electronic de, dms., works b. catide, powd., comi., dms., po los, min. b. do, same basis b. g. stabijzad, 325°F same is. 4.25 7.25 3.31

1.70

1.50

1.00

31.75

BRPX-213 Alfa-Lavai, 316 S/S construction SAOWH-3036 West Falla, sant., S/S SA-1-02-175 West Falla, Pilot Plant 3 way S/S 48" Sharples "Tornadomatic" 316 S/S (2)

48" Tolhurst, "Batch Master", S/S (2)
48" Sharples "Sludge-Pak" Model SP-6500, 316 S/S
48" Western States, "Sludge-A-Tron", 316 S/S, (3)
32" Baker-Perkins, pusher design, 316 S/S 26" AT&M suspended centrifuge, 304 S/S 5 H.P. 12" Krauss-Maffel, pusher designed, 316 S/S 8" Baker Perkins Pusher Dealgn, 316 S/S SB600 Alfa-Laval pusher dealgn, 316 S/S

SZEGVARI ATTRITOR 60 gal. Szegvari, jacketed, stainless steel

PRESSURE FILTERS

480 sq. ft. Durco-Enzinger, Model 60DHC489, 316SS 370 sq. ft. Niagara Model 370-348, 304SS 122.8 sq. ft. Funda Model R-30, 318 S/S, iktd., 40 HP 76 sq. ft. Niagara, model 33-12-5, \$/\$ jktd. (2) 314 sq. ft. Niagara, Model 42-310-22, 304 \$/\$ 259 sq. ft. Pronto, Model 3259, \$/\$ (2) 160 sq. ft. Sparkler, Model 33530, \$/\$ (2)

VACUUM FILTERS 8'x16' Ametek, 316 ELC S/S LIKE NEW CONDITION 6'x8' Elmco, precoat "Elmcomet" construction (3)

6'x6' Ametek, polypropylene 5'x7' Paxman, 316 S/S, precoat 18"x12" Elmco, 316 S/S, precont

REACTORS-TANKS

S/S, G/L Reactors, up to 5000 gal. capacity, Tanks up to 15,000 gal. capacity (100's in stock) (S/S, G/L, C/S, FRP)

HORIZONTAL BELT FILTERS

8'x18' Eimco, rubber belt, vacuum (2) 4'x12' Elmco, rubber belt, vacuum (2) 2'x10' Straightline, rubber belt, complete 2'x7' Straightline, rubber belt, complete 1'x3' Elmco, rubber belt, complete

BELT FLAKERS 30"x20' Sandvik, S/S belt flaker, complete 20"x32' Sandvik, S/S, complete system

FITZ CHILSONATOR Size 16 x 30 Fitzpatrick Chilsonator System, all S/S construction, with size 30 granulator, with drives

BALL/PEBBLE MILLS 5'x6' Patterson Jacketed Steel Ball Mill, 30 H.P. 3'x4' Patterson Pebble Mill, aricite lined

SAND MILLS 30 RS Premier, Susameyer Sand Mill, complete 12–30 Morehouse–Cowles Sand Mill, 50 H.P. 10–25 Morehouse–Cowles Sand Mills, 25 H.P. (2) 16–P Chicago Boiler "Red Head" 30 H.P. Lab Chicago Boller "Red Head," 1 H.P.

LAB 3 ROLL MILLS 5"x12" J.H. Day, high speed, complete 4½"x10" Ross, high speed, complete

4"x8" Kent, high speed, complete

ALL NICKLE CONSTRUCTION

500 gal. Nooter Reactors, 30/50 PSI (2) 500 sq. ft. U.S. Autojet Pressure Filler 107 sq. ft. Sparkler Pressure Filter, Model 33-8-19 JUST PURCHASED

7500 gal. Terre Haute Fermenters, 304 S/S, 50 psi (5) 4000 gal. horizontal batch still, S/S 2500 gal. Hicks tanks, 316L S/S, 50 psi or F/V 2000 gal. Nooter reactors, 316L S/S, 60/90 psi (8) 2000 gal. Pfaudler reactor, 316L S/S, 60/90 psi 2000 gal. Mueller reactor, 316L S/S, 60/90 psi 2000 gal. horizontal batch still, S/S (2) 1250 gai. S/S Mix Tanks, 10 HP Vari- Drive (2) Misc. G/L tanks and kettles, to 3000 gal. (8) ST 100 Aeromatic Fluid Bed Dryer, all S/S

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AATTEMER IN A MENTAL IN THE TRANSPORT OF

RESIN MFG. EQUIPMENT— **OHIO LOCATION**

5000 gal. Struthers-Wells Reactor System, 347 S/S, 50 PSI or full vacuum internal, 75 PSI jacketed, 700°F, turbine agitator, with condensor, receiver, piping,

15,000 gal. Stainless Steel Tank, vertical, with Internal colls, top entering 40 H.P. turbine agitator
200 gal. Baker-Perkins Mixers, size 17GIM, type 304 stainless steel construction, fully jacketed, duplex dispersion blades, screw tilt, 40 H.P. (5) 35 gal. Patterson "Kneadermaster" Mixers, 304 stain

less steel, sigma blades, Jacketed, 40 H.P. (5) 100 H.P. Sprout-Waldron Hammermills, Model CG-26 (5) 28" dia. Reitz Thermascrews, 304 S/S, Jacketed trough 28' long, 15 H.P. varidrive (2) 40"x84" Patterson Screens, 1 deck, S/S (9)

IMMEDIATE AVAILABILITY-CALL FOR DETAIL!

NEW LIQUIDATION

PVC Suspension Plant Ohio Location 1~5,000 gal. Pfaudier Reactors, C/S construction, rated 220 PSI internal, 80 PSI jacket, 50/25 H.P. Philadelphia

Complete Nara Vertical Fluid Bed Dryer System, all S/S, 6'7" x 22'1", 2 stage, rated up to 10,000 #/hr., with

heaters, blowers, cyclones

Complete Proctor Vertical Flash Dryer System, all S/S, 3'1"
x 117'2", with heater, blower cyclones
20,000 gai. Stainless Steel Mix Tanks, 13'6"x19', 20 H.P. (2)
16,000 gai. Stainless Steel Mix Tank, 12'x18'4", 10 H.P. (1)
15,000 gai. Stainless Steel Mix Tank, 9'6"x27'6" 40 H.P. (1)
8,500 gai. Stainless Steel Tank, 9'6"x15'2" (1)
8,000 gai. Glascote Vacuum Receiver, Glass-Lined (1) 8,000 gal. Glascote Vacuum Receiver, Glass-Lined (1 6,500 gal. Glascote Vacuum Receiver, Glass-Lined (1) 2,250 gal. Stainless Steel Kettles, 6'8"x8', Jacketed, 10

2,250 gal. Stainless Steel Kettles, 6'8"x 8', Jacketed, 3 H.P (2) 2,000 gal. Stainless Steel Mix Tanks, 6'x8'4'', 2 H.P. (3) 2,000 gai. Stainless Steel Mix I BINS, 0' X0' 4' | < IT.F. (3) 1,000 gai. Stainless Steel Kettles, 5'4"x6', jacketed, 2 H.P. 1,000 gai. Stainless Steel Jacketed Tanks, 5'4"x6' (2) 4-A.O. Smith Silos, Glass-Lined, 14'x40', boited

1-Butler, Epoxy-Lined, 9'x32' welded
220 CFM Sullaire Compressor, 125 PSI, rotary screw design
117 sq. ft. Milkro Pulsair Collector, Model 258-6-30, S/S
Derrick Screen, single deck, 3'x5'
Misc. tanks, feeders, blowers, cyclones, pumps

REACTORS

#EACTOMS
5000 gal. Struthers-Wells, 347 S/S, 50#/75#
3300 gal. Acme, 304 SS, 74#/76# (2)
2750 gal. Acme, 304 S/S, 74#/36# (2)
2000 Colonial, 316 S/S, 100#/100#, w/coil
2500 gal. Cryochem, 316 S/S, 75#/75#, with coil
1600 gal. Perry Products, 316 S/S, 75#/150#
750 gal. Pfaudler, Glass-Lined, 100#/90#
200 gal. Pfaudler, 316 S/S, 55#/80# UNUSED
50 gal. Pfaudler, Glass-Lined, 25#/90# complete system, with receiver & condenser

tem, with receiver & conden 30 gal. Pfaudler, 316 S/S, 60#/90# UNUSED 30 gal. Pfaudler, Glass-Lined, 25#/90# 10 gal. Pfaudler, Glass-Lined, 150#/85# 5 gal. Pfaudler, 316 S/S, 50#/80#

S/S PULVERIZERS
60 ACM Mikro Mill, 75 H.P.
PC-38 Strong-Scott Pulvacon, 150 H.P.
FASO-20 Fitzpatrick "Fitzmill", 75 H.P. (1) D-6 Fitzpatrick "Fitzmili", 7½ H.P. (2) Manesty "Rotogran" Oscillating Granulator

SPECIAL OFFERING

33' dia. Niro Spray Dryers, 316 S/S, UNUSED (2) complete spray drying facility, never installed, including (2) 33' dia. chamber, Model F-350 centrifugal atomizers. All equipment new 1978, as shipped from Niro

10' dia Niro Fluid Bed Dryer, 304 S/S, UNUSED, complete system with drying chamber, heating-cooling systems, feed tanks, cyclone collectors, all piping.

VACUUM DRYERS

375 cu. ft. Stehning, Double Cone, S/S (9) 175 cu. ft. Venuleth, Double Cone, S/S (3) 60 cu. ft. DeDeitrich, Double Cone glass lined 50 cu. ft.F.J. Stokes Double Cone, 304 S/S 40 cu. ft. F.J. Stokes, Rotary, Vacuum, 30"x8', S/S 21 cu. ft. Balfour, Double Cone, glas lined 20"x10' Zimmer dble. screw Holofiltes, S/S jktd.,vac. (3)

MIXERS

50 gal. B-P, C/S, Sigma jacketed vac., 30 H.P. 34 gal. J.H.Day "Titan," Sigma jacketed, 3 H.P. 70 cu. ft. fJ.H.Day, Nauta, S/S, jacketed, UNUSED 200 gal. 8-P, C/S, sigma, jacketed, vac., 75 H.P. (3) 75 liter Papenmeir Mixer, S/S, jacketed, 30 H.P. varidriva 8 cu. ft. Kelley Duplex, paddle, S/S, NEW 3.5 cu. ft. J.H. Day, Nauta, S/S

DISPERSERS 50 H.P. Cowles, vari speed. Like New

LAB 2 ROLL MILLS

8"x16" Reliable Lab Mill, 15 H.P., Like New 8"x16" Farrel Lab Mill, electrically heated, variable speed, variable friction 6"x13" Farrell Lab Mill, 10 HP drive 3"x7" Farrell Lab Mill, oil heated, variable speed

LITTLEFORD MIXERS

FKM 600 D, 13 cu. ft. stainless steel, w choppers (2) KM 300 D, 6 cu. ft. stainless steel FM 50, 1 cu. ft. stainless steel, jktd., vac., chopper, 5 H.P., vari drive, All XP. New Condition. FKM 8000 D, 169 cu. ft., carbon steel, 4choppers FKM 8000 D, 169 cu. ft., carbon steel

KM 4200 D, 86 cu. ft., jacketed, stainless steel FKM 3000 D, 65 cu. ft., jacketed, stainless steel KM 2000 D, 43 cu. ft., jacketed, stainless steel

S/S RIBBON BLENDERS 80 cu. ft. J.H. Day Sanitary S/S (2) 40 cu. ft. J.H. Day Sanitary S/S

ROSS PLANETARY MIXERS 40 gal. Ross, HDM-40, S/S, jacketed, vacuum, 10 H.P.

varidrive (2) 25 gal. Ross, HDM-25, S/S, 15 H.P. varidrive 2 gal. Ross, 130-ELS, S/S, jacketed, vacuum, ¾ H.P.

ARTISAN EVAPORATORS

50 sq. ft. Artisan "Roto-therm" Evaporators, all S/S construction, F/V internal, 150 PSI jacket (2) 1 sq. ft. Artisan "Rototherm" Lab System, all S/S

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6½ ton Manesty, Model BB3A, 27 station 6½ ton Manesty, Model BB3A, 33 station 4 ton Manesty, Model F~3, single punch

REFRIGERATION

200 ton Lewis Package Chiller, complete
30 ton Application Engineers, Package Chiller
15 ton Application Engineers, Package Chiller
10 ton Application Engineers, Package Chiller
7 ton Mayer Package Chiller
5 ton Peuchen Package Chiller, (2)

SCREENS

30" Sweco, S/S, 2 deck 18" Kason, S/S, 1 deck, unused (3) 36"x96" Rex-Carrier, 1 deck, S/S (4) 20"x48" Rotex, 1 deck, S/S

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dryef 132"dls. x 17'6" Sandvik SS belt flaker 136"dls.x 10' Butlovak Cl dblo, drum dryer 142"dls.x120"Blaw Knox Cl dblo, drum

dryar 48"dia.x 28" drum flaker, chrome plated

drum 46"dia.x 40" Ci flaker, mfg. by Buffalo

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foundary
(1) 48 dis.x 40 drum flaker, nickel plated drum, mfg. Blaw-Knox

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(1) 80 Kg. Aeromatic, Batch, 6'x9', 56,000
(1) 100 Kg. Aeromatic Model ST 100, sanitary
SS
(1) Füzpatrick Model FA 250, SS, 20 HP XP

) Western Precipitation Model P80SSO-A, twin acrew, 12' dia. x 20' long, SS constr., jck. rated 15 psi, complete with 7.5 HP vari-speed drive.) New/Never-Used Joy Processor, CS, single screw, 16"x16" long, rated 110 psi @ 340° F., sprocket & chain drive by 1.5 HP varispeed drive.

(1) 200 Cu. Ft. Stokes, SS constr., compit. (2) 155 Cu. Ft. Pfaudier, Double Cone, G/L, 30 AFV/50 pai | ktd., 15 HP vari-drive | 1 150 Cu. Ft. Blaw Knox, Nickel | 2) 132 Cu. Ft. Stokes, Nickel | 1) 72 Cu. Ft. Blaw Knox, SS | 1) 60 Cu. Ft. Titanium Double Cone | 1) 50 Cu. Ft. Gemco, 316SS sanitary, double cone

(1) 37.8 Sq. Ft. Horiz. Thin Film, vac. int. & 150 pelg, 304/316SS (1) 30 Cu. Ft. P-K Twin Shell, 304SS (1) 20 Cu. Ft. Abbe Twin Cone, 304SS

1) 30"x3" Bowen Laboratory w/3" cone bot-tom, 8\$ constr., w/centrifugal atomizer, 3 HP blower & motor.(1) 1) Ntro lab size 32" diax2"w/2"cone w/centrif.

(1) Alto lab size 32 diax2 w/2 cone w/centur.
atomizer SS contacts
(1) 7'10" Dia. Anhydro Complete System,
aenitary SS
(1) 16' dis. Bowen compil. system SS contacts, new 1976

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(1) Alia-Laval SS Decenter, Horiz., Mdl. NX314 (2) Dorr Oliver Mdl. CH30 CSU "Morco," 316SS

contacts, 160 HP Baker Perkins S-82 "Pusher Type," SS, 50 HP

(1) Tolhurst 48" x 24" perf. basket, 31689 sanitary, auto. plow & discharge, rated 85 #/ou. ft. @ 900 RPM, 20 HP XP.
(1) Tolhurst 48" x 24" Batchmoster, 31689, perf. basket, w/hydr. plow & 20 HP hydr. drive
(1) Tolhurst 48" x 24" Batchmoster, rubber tined,

perf. basket, w/hydr. plow & 20HP hydr. drive
) Tolhurst 48" x 24" Seichmaster, Horeste
lined, perf. basket, w/hydr. plow & 20 HP
hydr. drive
) Western states 48" x 24", 316 B8
) Fistcher 46" x 26" Suspended type, 98 perf.

Fletcher 46"x 28" Suspended type, 98 perf.

) Sharples Tornado 48" x 30", 3168S, perf basket, 40 HP XP

) Alfa Laval Model MAPX 210 T24, 88 welled

perts) Sharples C-27, 316 SS, welted parts, 40 HP) Sharples C-20, Super-D-Hydrator, 69, 30 HP) Dotr Oliver Mercone Screener Model C-400 X2, all SS, twin screw dipch., 10 HP

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) Delavol BRPX 309, SS, 20HP) Unused Model B-10 Podbielniak, Alloy 20

(1) Bird 18" x 28"; 316 ELC, contour bo (2) Bird 24"x38"; 31659, 40 HP (3) Sharples P-3000, 31659, 30 HP (1) Sharples P-1000, SS 20HP (1) Unused Bird 30 x96, 317L SS

Sharples AS-16P, 316SS

banket. 20/10 HP

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60 cu. ft.PK Biender 304 SS w/int. bar

63 cu. ft. C/S Marion Paddle Blender

2 cu. ft. PK Blender w/pin bar SS

175 cu. ft, PK Blender 316 SS 3.5 cu. ft. Prodex-Henschel Mixer. SS

Littleford FKM-600 Mixer SS (2)

500 liter Welex Mixers, SS

psi jkt., 10 HP

jkt., 10 HP

NX214/314.

Tank, 250 PSI.

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ee FILTER BONANZA ee Sparkler pressure leaf Filters, All stainless Steel Construction 2-Model #33D9

1-Model #18D12 1-Model #33S28

400 gal. G/L Pfaudler Vert Reciever 55 Psi. 1750 gal. Reactor 316 SS, 15 PSI Int. 40 psi Jckt.

St Regis Bag Packer, Model#718 5000 Gal. 304 SS jcktd., Mix Tank

2' dia. x 3' Chrome Plated Flaker

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(1) 1.4 sq. Ft. Luwa hin film SS (1) 2.6 sq. Ft. Rodney Hunt Turbo Film 347 SS (1) 5.4 sq. Ft. Luwa filmtruder, 316 LSS (1) 6.54 Sq. Ft. Votator Eveporator System,316 SS contracts, 15

(1) 1 Sq. Ft. Artislan "Kontro" Ajust-O-Film sys., 31658 (1) 1.4 Sq. Ft. Luwa Wiped Film, 31655, 1.5 HP

1000 gal. 316 SS Reactor, 15 & FV/50

1000 gal. 316 SS Reactor, 100/30 pa

Pressure Leaf -562 Sq. Ft., 316ELC, Hercules, 28 leaves 1-512 Sq. Ft., 31699, Niagara, 21

(1) 6.34 Sq. Ft. Votator Evergorator System, 316 SS Contracts, 16 pai & FY & Int., 150 pai lkt.
(1) 8.7 Sq. Ft. Rodney Hunt Turbo-Film, 304 SS contact parts, 16 pai & FY/160 pai kt.
(1) 10.8 Sq. Ft. Lives St Wiped Film Evep, System, 16/850 pai
(1) 19.5 Sq. Ft. Votator Turbo-Film, 304 Sanit. SS FY/160 pai paig -Approx. 206 Sq. Ft., SS, Sparkler, (1) 20 Sq. Ft. Kontro Hortz. Adjust-O-Film, 316ELC, 50 psig. 15 (1) Approx 31 Sq. R. Vert., Turbo-Film Processor, 304 58

(1) Like New 37.8 Sq. Ft. Luwa Horiz, Thin-Film Dryer, 304/316L SS. (1) 40 Sq. Ft. Kontro Adjust-O-Film, SS constr., 20 HP (1) 47 Sq. Ft. Artisan rising Film, Hast. "C" (1) Approx 51 sq. It. Pfaudier Wiped Mm, 318 SS, 100/85 & FV (1) 80 Sq. Ft. Kontro Wiped Film Syst., SS constr., FV/160 psi,

(1) UNUSED 88 sq. ft. Luws thin film dryer horiz. 316 L wetted parts, FV int., 150 psi set steam jkt.
(1) 141 Sq. Ft. Rodney Hunt Turbo-Film, 316 SS 16 psi int., 35 psi

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800 Cu. Fl. jktd. Dbl. Rbn., CS
Approx. 480 Cu. Fl. CS, 75HP
UNUSED 480 Cu. Fl. CS, 75HP
300 Cu. Fl. CS Dbl. Cone, 30 HP
200 Cu. Fl. KS 316SS Dbl. Cone
175 Cu. Fl. P.K Twin Shell, 316SS
69. 3 Cu. Fl. CS Dbl. Cone, 7.5 HP
63 Cu. Fl. Marion Paddle, CS
60 Cu. Fl. Marion Paddle, CS
60 Cu. Fl. 304 SS P.K. Twin Shell, w/int. bar
60 Cu. Fl. Genco Dbl. Cone, 304SS
30 Cu. Ft. P.K. 304 SS. W/lig. bar.
20 Cu. Fl. P.K. Twin shell, SS
16 Cu. Fl. Robinson Dbl. Rbn. CS
15 Cu. Fl. WC Marion SS
10 Cu. Ft. Genco dbl. Cone, CS, 1½HP
10 Cu. Fl. Genco dbl. Cone, CS, 1½HP
10 Cu. Fl. Howes, CS, Dbl. Rbn.
5 Cu. Fl. Howes, CS, Dbl. Rbn.
5 Cu. Fl. Sb. Dbl. Cone W/liquid-solids bar
2 Cu. Fl. P.K Twin Shell, SS Conetr., w/pin int. bar
10" P-K złg zag

NONAL

FILTERS

1-400 Sq. Ft. R/L Sparkler 1-327 Sq. Ft., 304SS, Ind. Filter, 11

-320 Sq. Ft. Durco 316 SS, 11 Leaves -259 Sq. Ft. Pronto Mdl. #3259, 75

1-200 Sq. Ft., SS, Hercules, Horiz. 1-191 Sq. Ft. Enzinger, SS, Vert., 75 psi 1-157.64 sq. Ft. Sparkler model 55-5-28, 316SS

1-150 Sq. Ft. Horiz., 12 Vert. Leaf 1-135 Sq. Ft. NI, Bowser, Vert.

1-35 Sq. Ft. Hercules Model 5, 316 SS, horiz. tank vert leaves 50 pei **Rotary Vacuum**

1-56.5 Sq. Ft. KS, Inconel 600 1-56.5 Sq. Ft. K-S, 316SS, flexibelt

nach. 1-87.92 Sq. Ft. Feinc, SS wetted parts, spring disch., 56" dia. x 6' face drum 1-132 Sq. Ft. Dorr Oliver, 30488, maxi-

belt disch. 1-200 Sq. Ft. Elmco, 316SS, 8'x8' 4-250 Sq. Ft. D.O. 316L SS Precont, 8'

x10', sanit
1-250 Sq. Ft. K-S 318SS, coll disch.
1-300 Sq. Ft. Elmco, 316SS wetted
parts, precoat type w/kn/fe disch.,
10" dla. x 10' drum, compit. w/control panel & aux. equipment 1–314 Sq. Ft. Eimco, precost disch.,

1-400 Sq. Ft. Elmco, CS, Precoat 1-500 Sq. Ft. Elmco, 316SS, belt disch. 1-3'x1' 316SS, knife disch. 31655 -3'x1' Dorr Oliver, FRP w/receiver & Nash H4 vac. pump, 10 HP

1-3'x 1' K-8 comp. sys., 316 SS Flex-

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500 Gal. Plaudier, 100&FV/85 pel. BH

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1,000 Gal. 316 SS, 15 & FV/50, 10 HP 1,000 Gal. 316 SS, 100/30 10 HP 750 Gel. 31688, 75 & FV/50 pal-750 Gel. 30488, 50/60 pel 600 Gel. 31688, 3000pel, 10 HP

100 Gal. 31685, 15/50 psi 100 Gal. 316ELC SS, 500/90 psi

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15 Gal. W.C. Readco Sigma Blade Dbl. arm 25 gal. Readco DBL/Arm Sigma Blade iktd. SS construction 15 H.P. 80 Gal. Hockmeyer Pony, SS contacts, 7.5 HP varispeed
100 Gal., SS, Sigma Blade, Jcktd. 40 HP
200 gal. W-P CS dble arm Sigma blade, 20 HP
250 gal. AMK Kneader Extruder, Sigma
Blades, CS construc, 40 pelg, trough jkt.
500 liter Welex hi intensity, SS contact parts
500 Gal. S-W Rubber Cement, CS, 2-10 HP

Littleford Model FKM-2005, 35, w/choppers Littleford Model FM 100 Sanit. S8 w/choppers 3.5.Cu. Ft. Prodex Henchel Mdi. 35 J SS, SS Const. 7 Cu. Ft. 30438 Nauta Model MBX-70

7 Ct. Ft. 30435 Natite Model Inter-Fo 10.8 Ct. Ft. Natita D-105, CS 10 HP Hockmeyer High Speed Disperser Welding Eng. Model 2FV1V25 Twin screw Extruder, SS, Contacts, 150 psi Koehring mdi, 350, 40 HP

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Glass Lined 4,000 Gal. Pfaudler, 100/90 psl, TW 1,000 Gal. Pfaudler, 100&FV/90 psl,

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1,000 Gal. Pfaudler, RA60 Series, 100& FV/90 psl, 4DW
1,000 Gal. Pfaudler, RA60 Series, 100& FV/90 psl, 4TW
800 Gal. Se clad, 60/60 psl
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4.5 Gal. Kneader Master Cont., SS w/kt. 5 Gal. AMK 304SS Joktd. Kneader Extruder

motors (2)
Unused 1000 Get. Sentlary 316SS B-K Dbl. Motion
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21283 Tank, S/S vert., 1200 gal., 6' dia.x6', flat top & bot. 20651-Tank, SS, 9000 gai., agit., 12' dia. x 14'6" H. 20655-Tank, SS, 12000 gai., 12' dia. x 14', ital bottom

open top. 17043-Jos Oat horz. tank, 304SS, 16,000 gal., 12'8" dia. x 22'912" long, 10 PSI.

UNUSED CENTRIFUGES 21593-Sharples P5400 Sanitary Cen-

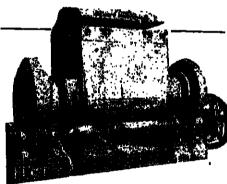
trifuges w/200 HP motor, 25 HP backdrive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL

CENTRIFUGES

20827-Bird, 18" x24" steel, conicel bowl. 20826-Bird, 24" x38" steel, con. bowl, gearbox. 20819-Bird, 24" x38", S/S, 15 degree, contour bowl. 20884-Bird 24"x60". H senes, steel w/motor. 20364-Bird 32"x 50", SS T316 contour, 75HP 2883-Bird 36" x96" contour, 10 deg., T317 ELC. 20137-Alfa Laval, NX 418-B31-60, 316SS, gearbo 7308-Dorr Oliver, 304SS, Merco mdl. 16L, 30 HP 3565-Sharples, mdl. P 600, gearbox, motor. 19767-Unused Sharples, 3 phase, P3000, S/S, carbide 20407-Sharples P2000 316SS, 20 HP drive motor. 20686-Sharples P3000, 52:1 gear box, S/S casting 21725-Sharples, P3400, S/S, gearbux & motor. 19249-Sharples, P5400, 316/317SS, 200 HP, gearbox

CENT-BASKET VERT.

21408-Delaval 22"x16" perf. basket hyd. drive. 15815-Delaval Mark III. perf. basket. 40"x24", 316SS, 30 HP, hydr., drive. 19448-Sharpies Sludge-Pak. SP-5500, 40"x24" basket



21459-Baker Perkins Mixer, obl. arm, C/S, 300 gal. Geared both ends, 100 HP, mod. 18JUMMZ.

FILTER PRESSES 19846-Shriver P&F filter press, 12"x12" akm. plates,

closed delivery, 23 chambers. 20534-Sperry Filter Press, 30", alumn. 20539-Sperry filter press 30", 35 Aluminum plates, 357 sq. 15370-Shriver 32" x 32", polypropylene, 27 plates, ratchet

closing. 15929-Shriver ALP, plate & frame, 18 36" x 36", S/S re-

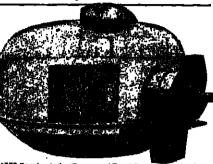
19462-Independent filter press, 42" x 42", polypropylene, 4 eye closed, 34 chembers. 0-Sparry filter press, 42" Encicloser, 41 alum. plates.



18373-Von Roll Filter Press, polypropylene plates & ramos, 32 chambers, 722 sq. ft. filter area.

DIESEL GENERATORS

22111-Detroit Diesel Generator 400 KW 16 cyl. mod. 71647000, fan cooled w/switchgear. S/N 66375 22112-Deirolt Diesel Generator 600 KW 16 cyl. mod. 1647305, Turbo-charged w/switchgear S/N 68724 Call Jerry Cohen 312-350-2200



17" Diz., 75 Sq. Ft., jacketed, agit. 18 HP, Side Oischarge... Call Herb Landy (312) 350-2200

REACTORS

20252-Unused Reactor, 600 gal., 304SS dimple jktd. 10138-Pfaudler, 800 gal., T-316 LSS, 55 PSI int/150 PSI. 20928-Brighton, 4000 gal., 8' dia x 10', 316 ELC S/S 20456-Reactor, 4,000 gal., 316 S/S, 8' dia x 7'9" st side. 20430-reactor, 4,000 gat., 316 SS, vacuum. 15475-Brighton, 4000 gat., 316 SS, vacuum. 20287-GH Hicks, 4000 gat., 316 SS, pipe coli jkt. 20923-Richmod Eng. Reactor, 4600 gat., T316 stain/clad. Pfaudier 10,000 gat. reactors T316L, 100 pst int., 180 pst. Pfaudier 15,000 gat. reactor T316L, 100 pst int., 200 pst jkt.

DUST COLLECTORS

21125-Fabri-IJel (dl. SQ9-4B bin vent, 42 sq. ft. 16398-Mikro dust collector, S/S, 63 sq. ft., mdl. 9-8-100, pulse jet. 21153-EVO, bin vent, 72 sq. ft., S/8, 5 HP

20253-Unused EVO pulse jet collector, mdl. 84BF009C, 90 sq. ft 21192-JH Day mdi. RJ-18RJ36, 125 sq. ft., CS, 3 HP

21222-Fabri-Jet, mol SQ16-80, 151 sq. ft. 20398-Pulse jet collector, "FlexiGeen," w/175 sq. ft., cloth, C.S. st collector. 285 sq. ft., S/S. 20258-Unused EVO Corp. pulse jet dust collector, mdl.

20255-Unused EVO Corp. dust collector, shaker type, mdl. MS049C10.575 sq. ft. SCREENS

99BF030C, 350 sq. ft.

21203-Sprout Waldron sliter, D10, 6 decks. 21150-Sprout Waldron, D10, 1 HP, 10 decks, S/S cont. 21167-Sprout Waldron, D10, 2HP, 10 decks, 8/S cont.

MIXER/EXTRUDER

17654-AMK 25 gal. Mixttruder, Sigma, ST 7.5 HP. 18298-J.H. Day 25 gal. Dispersion, 25 HP vari main, 10 HP 0996-AMK 30 gal. S/S, jkt. Sigma, 7 5 HP Main, 6 HP

screw. 21334-Ross 40 gal., S/S hot oil jkt., Sigma 6" dach, screw

21334-Ross 40 gal., S/S hot oll kt., Sigma 6" disch. screw.
19826-AMK 50 gal. ST, jkt., Sigma, 10" disch. screw.
19421-AMK 75 gal. ST, jkt., Sigma, 10" disch. screw.
17136-AMK 120 gal., ST Sigma, 11.6" screw.
14832-AMK 150 gal., S/S, Sigma 15HP main, 10HP screw.
19494-AMK 150 gal., S/S Sigma, 50 HP main, 10HP screw.
20116-AMK 150 gal., ST, Sigma, 15 HP/10 HP
503527-New Aaron 300 gal., T304SS, rdx extruder. Sigma, jkt., up to 200 HP main, 75 HP hyd. screw.
STILL INSTALLED ... CALL NOW!

21350-B.P. 500 gal. Sigma steel, jkt. 125 psi,150 HP, Hyd. tilt

MIXERS - PLOW

503755-Littleford, FKM 800D, SS jacketed, 25 HP. 20754-Littleford, FKM 3000D 65 CF, S/S, full jacket. 19214-New Plow Mixer, 80 cu. ft. 34788, jacket, 100HP. 20829-Littleford FKM 4200D, S/S, 67 cu. ft. JKT.

MIXER RIBBON

21120-Ribbon Biender, S/S, 10 cu. ft., |kt. 88, 150 psi. 20276-Read ribbon blender, 14.7 cu. ft. 30488, 3 HP. 20816-Unused Day, 31688, 23 cu. ft., 5HP. 20189-Robinson, 25 cu. ft., S/S, jacket, 10 HP. 20885-Int 134 cu. ft. S/S dbl. ribbon, 5 HP. (4) 20212-Haas ribbon, 36 cu. ft., S/S, 15 HP. 19266-Ribbon Mix 80 cu. ft. T304 SS, 5 HP (4) 19566-Howe, 115 cu. ft., sanitary S/S, double spiral riobon.

20983-Strong Scott blender, 130 cu. ft., 30488, 25 XP geal 21124-Ribban Blender, 30498 jkt., 160 cu. ft., 30 HP 20614-Unused JH Day ribbon, 8/8 270 cu. ft., 25 HP. 21114-JH Day ribbon blender, S/S clad, 75 HP, 480 cu.ft.

DRYER-ROTARY VAC.

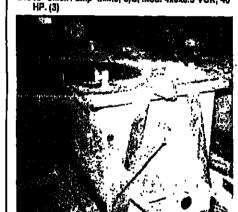
J844-Bethlehem Porcupine Processor/Polyetter Chip Crystallizer 30" dia. x 18' long, T304 S8, jkt, 20 HP (6).

LIQUIDATION SALE



21898-Brighton Corp. 12,000 gal. veasel. 21875-Bins, 176 cu. ft., 8/8, cone bottom flat top. (4) 21891-Bins, 450 cu. ft., C/S, epoxy lined. (8) 21904-Bins, 450 cu. ft., C/S, epoxy lined. (6) 21905-Bins, 500 cu. ft., C/S, epoxy lined, flat top, coni-

cal bottom. (4) 21918-Worthington cent. pump, C/S, 15 HP, 200 GPM at 44 psig (2) 21916-Union Pump-Inline, C/S, mod. 4x6x8.5 VCK, 40 HP. (3)



21888-Strong Scott Rib Blander.

21917-Ingersol Rand Pump, in-line pump, C/S, 30 HP. 21915-Goulds, C/S turbine pump, 200 HP. (2) 21913-Worthington cent, pump, S&S, 2 HP. (4) 21912-Union pump-inilne, S/S, 7.5 HP (2) 21899-Plaudier Reactor, 1,500 gal., 318L SS dimple jkt. 21898-Plaudier Reactor, 10,000 gal. 318L SS clad, 60 HP. (4) HP. (4) 21900-Pfaudler Reactor, 15,000 gal. 316L SS dimple



21871-Prodex 8", 30:1 L/D Extruder.

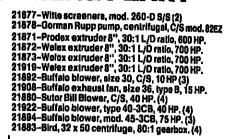
HP. (4)
21881—Heaters, C/S steem, type BNF 2420 (5)
21914—Flotronics bin vent, filters, 122 aq. ft., 12 bags.
21890—Katron feeder, twin screw volumetric, S/S. (4) 21889-Katron Feeder Iwin srew, S/S mod. 5400-150(4) 21801-Sparkler filter, 352 sq. ft. C/S, mod. VR-32-32. 21882-Screw conveyor, 304 SS, 7" dia. x 11L, 1.5 HP.

21906-Edw Renneburg Rot. Dryer, 8/8, steam heat, 10

21882-Screw conveyor, 304 35, 7" GB. X 11L, 1.3 TX 21888-Strong Scott Rib Blender, 25 cu. ft., 5 HP. (3) 21920-Welex extruder 8", 30:1 L/D, 400 HP. 21870-Welex extruder 8", 30:1 L/D, 600 HP. 21876-Conair pelietizer, \$15, mod. 1024, 40 HP. (2) 21874-Water bath, 8/S, portable. (4) 21907-McMillian hyd. pump, 2 HP (2) 21887-Ross Static Mixer, 3048S, 3"x6 element. (4)

21870-Welex 8" Extruder, 600 HP.

BUY FROM CALUMET CITY ILLINOIS LOCATION AND SAVE! LARGE POLYSTYRENE PLANT



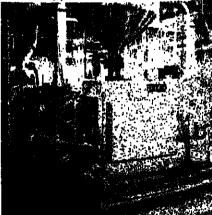
21879-Sweco 60" Sifter.

psl. (2) 21878-Sweco slifter 60", mod. LS60588, 2.5 HP, 21923-Keson slifter 60", mod. K601SS, S/S, 1 HP, 21884-Flotronics Cyclone mod. FTHEC370-T, 304 S/S 12" dia. dish top. (3)



21883-Bird Centrifuge, 32x50, 80:1 gearbox.

21895-Tank, 850 gal. vort. coal tar opoxy lined. 21911-Tank, 6400 gal. vort. C/S epoxy coated flat top



21897-Metal Arts Corp. vessel, 17,000 gal. vert. 3171

AARON BUYS COMPLETE PLANTS FOR LIQUIDATION CALL LES OR JERRY COHEN TODAY: (312) 350-2200

COMPLETE PHARMACHUTICAL/CHEMICAL PLANT

PLANT WAS IN OPERATION THRU APRIL OF 1986 COMPLETE PLANT EQUIPMENT FOR SALE INCLUDING:

PILOT...FULL SCALE CIAMUFACTURING EQUIPMENT, PLANT UTILITIES

COMPLETE REACTOR SYSTEMS...WASTE TREATMENT PLANT

...ROTARY VACUUM DRYERS... CENTRIFUGES...TANK FARMS

JUST A PARTIAL LISTING OF EQUIPMENT:

VARIOUS SIZES & MATCHIALS OF CONSTRUCTION

...AND MUCH MORE!

CENTRICIONES

ALL31655 EQUIPMENT COMPLETE WITH CONTROLS, PLOWS, SET UP FOR NITROGEN PURGE EACH INDIVIDUALLY SKID MOUNTED

48" x24" SHARPLES SG, HYDRAULIC DRIVE (4)

40"X24" SHARPLES SS, HYDHAULIC DRIVE 40"X24" SHARPLES SS, HYDHAULIC DRIVE 30"X15" SHARPLES "TORONADO MATIC," SS WITH HYDRAULIC DRIVE (3)

CHILLIANS

3, 25, 30, 40, 100, 125 100

(I. (CALITY PROTECTION OF THE TOTALG (A) INGERSOLL RAND XLE-15 Va-10xY, 125 HP, 70 PSIG

DRVERS

EDICA Y 1250789

BOUBLE CODE VACUUM SYSTEMS: DEDICTRICH G/L, GO CU. FT.
PLAUDLER G/L, 70 CU. FT. SYSTEMS
DEVICE 31660, (1) 30, (2) 70, (2) 80 CU. FT. SYSTEMS
31668 BOTARY VACUUM DIYER SYSTEMS; (3) 142, (1) 120 CU. FT.

SHELF: 6 VACUUM DRYER SYSTEMS

SS & CS ROTARY VAC. DRYGHE: 125, 100, 90, 80, CU. FT.

PASSAVANT BILL. VICTOR TO BE LOUID MENT INCLUDING: DIESEL POWERED FIRE PUMP ... NEW IN 1994 ELECTRIC POWERED FIRE PUMP 150 HP

MIXERS 100 CU. FT. MUNSON SS DOUBLE RIBBON BLENDER SYSTEM LITTLEFORD MDL, FKM2000-0, 73.5 CU. FT. 70 CU. FT. DAY, SS RIBBON BLENDER SYSTEM

MILLS

PAUERMEISTER TURBOMILL, 40 HP, COMPLETE SYSTEM
FITZPATRICK MDL. DG COMMINUTOR 7.5 HP
FITZMILL MDL. DKSO12 COMMINUTOR
ENTOLETER MILL 5 HP, MDL, M1112G1-23

100'S OF PUMPS

VARIOUS ...MAKES...MODELS...SIZES...MATERIALS OF CONSTRUCTION TOO NUMEROUS TO MENTION

REACTORS

(1) 3,000, (7) 2,000, (22) 1,000 (8) 500, (2) 300, (1) 200, (1) 130,
(4) 100, (4) 50, (1) 30 GALLON
ALL REACTORS EQUIPPED WITH TW DRIVES, MECHANICAL SEALS MANY WITH
VARIABLE SPEED DRIVES, GLASS
RECEIVERS & GRAPHITE HEAT EXCHANGER
STAINLESS STEEL 216 & 216 ELC

STAINLESS STEEL 316 & 316 ELC

(1) 4,000, (1) 3,000, (3) 2200, (6) 2000, (1) 1,300, (2) 1,250, (9) 1,100, (7) 1,000, (7) 600, (2) 300, (1) 30, (1) 10 GALLON

GLASS LINED 11 SS JKT. AGIT. KETTLES FROM 750 GAL. TO 5,000 GAL.

NIVERSAL PROCESS EQUIPMENT, INC.

OVER 15,000 PIECES OF PROCESS EQUIPMENT IN STOCK...CALL TODAY! CHANCE LIQUIDATIONS

— SPECIAL —

900 GAL. SS SIGMA MIXER
SHARPLES SS MODEL P-3400 (4)
6M² ROSENMUND (NUTSCHE TYPE) 316 SS FILTER
4,200 GAL. HAST C REACTOR 125 AND FV/175
UNUSED 1900 SQ. FT. HAST C HEAT EXCHANGER

O'CU FET SE ROT, VAC: DRYER SYSTEMS (OOO GAL: G7/L BEACTOR 100FV7150FV AL'SSIREACTOR VO7175 PSI WPIPE COIL JKT.

GLASS LINED RECEIVERS & CHEMSTORS (2) 2,000, (10) 1,000 (1) 500, (4) 250, (5) 100, (2) 50 GALLON

STAINLESS STEEL
(1) 5,000, (1) 4,000 (1) 3,000, (6) 2,000 (3) 1,500, (4) 1,000, (1) 800, (7) 800, (1) 300, (3) 250, (5) 200, (1) 150, (3) 100, (3) 50 GALLON

Tank Farms

GLASS LINED: (2) 10,000, (1) 5,000, (2) 2,000 GALLON
STAINLESS STEEL 3168S & 316LSS: (10) 10,000, (1) 8,000 (3) 7,500, (2) 6,000,
(3) 5,000 (3) 4,000 GALLON
KYNAR LINED: 30,000 GALLON HERESITE LINED: (1) 10,000 GALLON LITHCOTE: (1) 10,000 GALLON RUBBER LINED: (3) 10,000 GALLON FRP: (1) 12,000 GALLON STEEL: (1) 15,000 (1) 8,000, (2) 6,000, (7) 1,000 GALLON

IF YOU ARE BUILDING A MEN CHERICL PLANT OR expanding a process you must visit this LIQUIDATION SITE

COME SYMUP/STANCE PLANT 200,000 LBS /HR @ 300 PSI BOILER 150,000 LBS/HR @ 700 PCI PACKAGE BOILER 50,000 LBS/HR @ 250 PSI PACKAGE BOILER 6'x 50' 304 GS ROT, HOT AIR DRYER

5'x 30' CS ROT, HOT AIR DRYER 4'x 31', 72 TUBE SS ROT STEAM DRYER 24,000 SQ. FT. TRIPLE EFFECT EVAP. TI TUBES 600 SQ. FT U. S. AUTOJET FILTER CEILCOTE LND (3) 500 SQ. FT. HERCULES 316 ELC PR/LF FILTERS (4) 12'x 15' EIMCO BELT CS ROT. VAC. FILTER (2) 7'6"x16' EIMCO 316 SS PRECOAT FILTER (2) 8'x 10' EIMCO 316 SS PRECOAT FILTER (2) 500 SQ FT. 316 SS PLATE HT. EXCH. 265 SQ. FT. APV 316 SS PLATE HT EXCH DUCON SS WET SCRUBBER 11500 CFM 20,000 GAL 316 LSS MIX TANK 13'x 20' 9,000 GAL. SS VERT. MIX TANK 13'x 8'

7,000 GAL. 316 SS CONE BOTM. TANK 10'8"x 9'6" 6,500 GAL 316 SS CONE BOTM. MIX TANK 12'x7'8" 5500 GAL SS MIX TANK 12'x 6' 316 (11) 3000 GAL SS MIX TANK 9'x 6'6" (3) 3000 GAL 316 VAC.TANK15 PSI/FV PLUS MANY MORE ITEMS

4000, 5000, 6000 GAL. RUBBER-LINED AGITATED REACTORS, VERY ATTRACTIVE PRICES!

SYNTHETIC GAS PLANT

250,000,000 CU. FT./DAY

COMPRISED OF TWO TRAINS ON 60 ACRES OF LAND WE WILL SELL ENTIRE FACILITY OR INDIVIDUAL PIECES OF EQUIPMENT FOR MORE DETAILS

FOR SETTING UP AN IMMEDIATE INSPECTION CALL OUR SALES DEPARTMENT NOW! 609-443-4545

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SMITH MOLECULAR ROTA-FILM MDL. 700-12-P, SKID MOUNTED
SOLVENT RECOVERY SYSTEM
OTHER DISTILLATION COLUMNS AVAILABLE PLEASE CALL RALPH CARTER FOR FURTHER INFORMATION AT 609-443-4545

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September 29: 1986

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

KETTLES-REACTORS. SS

30,000 gal. 304SS fermentors, 14' x 24', 25 paf/vac colls, 200 HP sgit. (4) 5,000 gal. 304SS, atm. int., 75 paf jkt., agit. 4,100 gal. 304SS kettle, 16 paf jkt., 5 HP agit. 3,500 gal. 304SS reactor, 75 paf/FV int., 180 paf jkt. 1,500 gal. 304SS reactor, 75 paf/FV int., 180 paf jkt. 1,500 gal. 304SS reactor, 16 paf int., 25 paf jkt., 5 HP agit. 1,150 gal. 304SS reactor, 75 paf/FV int., 150 paf jkt., agit. 600 gal. 304SS reactor, 75 paf/FV int., 150 paf jkt., agit. 600 gal. 304SS reactor, 75 paf/FV int., 150 paf jkt., 5 HP agit. 300 gal. 316SS reactor, 75 paf/FV int., 60 paf jkt., 5 HP agit. 500. 316SS reactor, 75 paf/FV int., 60 paf jkt., 5 HP agit. 50)... 316SS and 304SS reactors and kelties from gallon to 400 gallon... call for list.

BIG PFAUDLER 316SS REACTORS

(3) 15,000 gal. Plaudier, 31655, 12'6"x 15', 100 psi, 200 psi jid. Agit. (4) 10,000 gal. Plaudior, 3169S, 11'6"x 12'4", 100 psi, 180 psi, jkt. Agit.

MEACTORS-GLASS 2 get. Plaudier, 750 pal/FV, 700 pal jkt. 20 gei. Plaudier, 35 pel, 100 pel jkt., agit. (2)

20 gai. Pfaudier, 35 paf, 100 paf jkt., agit. (2)
30 gai. Pfaudier, jktd.
50 gai. Pfaudier, 25 paf, 100 paf jkt., agit., 1975
100 gai. Pfaudier, 25 paf, 90 paf jkt., agit., 1975
100 gai. Pfaudier, 25 paf, 90 paf jkt., agit., 1975
150 gai. Pfaudier, 25 paf, vac., 90 paf jkt., agit.
300 gai. Glascote, 25 paf, vac., 90 paf jkt., vari-drive agit.
500 gai. Pfaudier, 100 paf, vac., 90 paf jkt., 5 HP agit.
760 gai. Pfaudier, 26 paf, 85 paf jkt., 5 TW agit.
1,000 gai. Pfaudier, 75 paf jkt., 90 paf jkt.

1,000 gal. Pfaudler, 75 pal/vec., 90 pal jkt., 10 HP agit. 1,500 gal. DeDictrich, 100 pal/vac., 90 pal jkt., 1981, 1,500 gal. Pfaudler, 100 pal/vac., 90 pal jkt., 26 HP agit.

2,000 gal. Pfaudler, 100 psi/vsc., 90 psi jkt., 15 HP sgit. 2,500 gal. Pfaudler, 160 psi, 90 psi jkt., #TW6 sgit. NEW LIQUIDATION! CHEMICAL/POLYMER PLANT....ILLINOIS ..BUY BEFORE REMOVAL

AND SAVE!!

Bird 32"x 50", centrifuges, 316SS, contour (2) Welex 8" Extruder, 700 HP, 30:1 L/D (5) Welex 6" Extruder, 400 HP, 30:1 L/D (2) Conair 24" pelletizer, 40 HP (2) Renneberg 5'x 25' 304 SS rot, hot at

dryers, 10 HP, (3) Sweco & Kason 60" screens, SS (2) K-Tron 7000#/hr. twin screw volumetric

feeder, SS, (5) Pfaudier 1,500 gal. 316L SS reactor, FV/-180 psi' 5 HP agit. (2)

Plaudler 10,000 gal. 316L 6S reactor, 150 psi/FV int., 180 psi jkt., hyd agit (4) Worth. Plant air comp., 323 CFM @ 125 pst, 75 HP. Model #4-8B-2 (2)

17,000 gal. & 12,000 gal, 316 SS Tanks (3)

PHONE (609) 267-1600

for

Process Equipment

DRYERS

Blaw | Knox 6'4"x 40' 88 vac. dryer, 600 cu. ft.

Blaw Knox 36"x 20" vac. dryer 316L SS, 72 cu. ft.

Blaw Knox 66"x 36' vac. dryer, nickel Mathia 24"x46" flaker, chrome plated Sandvik 48"x24" SS beit flaker, UNUSE Sargent 60" x 45" SS conveyor dryer itokes 8" x 11" drum flake Blaw Knox 32" x 90" dbl. drum Buflovak 42" x 120" dbl. drum, 160 psi Aeromatic #ST-5 fluid bed dryer, 5/10 KG Wilte 36" x 10' fluid bed, 95, sunit.-cooler Stokes 36 sq. ft. Lyophilizer freeze-drye Renneberg 36" x 20" rotary dryer, 316 SS Renneberg 5'x 25' 30488 rot, hot air dryers, w/cyclone, etc. (96" x 50' Louisville SS rotary dryer 10' x 100' GATX rot, steam tube dryers, 140 psi (4) Wysemont #VTL-24 Turbo-tray dryer, 304SS P-K 5 cu. ft. vac. dryer, 304SS P-K 20 cu. ft. vac. dryer, 304L SS (2) Abbe 30 cu. ft. 304SS vac. dryer Devine 110 cu. ft. 304 SS vac. drye Pfaudier 165 cu. ft. glass-steel vac. dryers (2) Abbe 325 cu. fl. 31658 vac. dryer Davine 370 cu. ft. 316SS vac. dryer Devine 564 sq. ft. vac. shelf dryer Niro 30" SS spray dryer Turbulaire 48" x 7' spray dryer Bowen 72" apray dryer, SS

Bowen 96" spray dryer, 83 FILTERS-VACUUM

36" x 1' Dorr-Oliver, fiber glass 9 sq. ft. 36" x 1' Ametek, 316 SS, 9 sq. ft. 40" x 3" Bird-Young, 8S, 48 sq. ft. 4" x 16" Elmoo, 316SS, 64 sq. ft., horiz. 6" x 3" Ametek, SS, 56 sq. ft. 8' x 4' Elmoo, "Elmomet" polypropylene, UNUSED 8' x 6' Elmoo, SS, 200 sq. ft., precost 8' x 10' Dorr-Oliver, 250 sq. ft., 316SS, precost 8' x 12' Elmoo, 316SS, precost, 300 sq. ft., (3) 8' x 14' Dorr-Oliver, 316SS, precost, 360 sq. ft. (2) 10' x 10' Elmoo, 316SS, precost, 314 sq. ft.

11'6"x 16" Elmco, 8S contacts 12' x 14' Komline, 304SS, 625 sq. ft., flexibelt disch. (2) 45' dia. Elmco lifting pan. vec. filter, 316 SS

Dorr-Oliver 0' x 12' pre-coat rolory vacuum Idlam, 3165% contacts africas Blastical,

FILTERS—PRESSURE 12 og. ft. Ametek/Niegera #12, 85

64 eq. ft. Funda, 85, jktd. 65 eq. ft. Arisan "Dynamic" filter/washer, 85 (2) 140 eq. ft. Nisgara # 36-140 316 58 (2) 600 eq. ft. U.S. Autojet, 31698, sanit. 1000 eq. ft. U.S. Autojet #1000, 30488 30" Sperry filter press, 11 cu. ft.
36" Shriver filter press, 546 sq. ft., hydraulic
42" Shriver filter press, 777 sq. ft., hydraulic
48" Shriver ALP recessed filter press, SS, 276 sq. ft.
48" Clow, polypropylene recessed, 1500 sq. ft.

PULVERIZERS

Mikro #SMA atomizer, 5 HP Mikro #SMA atomizer, 89 Mikro #2DH pulv., 89, 5 HP Mikro #2DH pulv., SS, 5 HP
Paliman #REF8 pulv., 100 HP
Paliman #RF88 pulv., 50/75 HP
Abbe porcelain pebble milia... 36"x42", 36"x48",
42"x60", 48"x60", 60"x48" [7]
Raymond 50" 6 roller hi-elde mill, 1961, UNUSED
Raymond #8055 HI-elde roller mill, dbl. whizzer [2]
Raymond #73612 HI-elde roller mill, dbl. whizzer

NEW LIQUIDATION DRY DETERGENT MFG. EQUIP. ..NORTH JERSEY!

6-Kleiseler dust collectore: 2000, 1400, 535 sq. ft. 5-Cleveland 120 cu. ft ribbon blenders, 60 HP 6-60' C/C steel bucket elevators 5-Kleiseler bag type dust collectors 2-Box Filling Lines / 160, 120 Boxes/Min. 1-J.H.Day 200 gal. eigma blade mixer, iktd., 40 HP 2-Moyno Pump 8 it.8880, 5HP. 2-FMC-Stokes form, fill 8 seal units 2-Eriaz #828 yibratory feeder, 83, 60''y 18". Eriez #62B vibratory feeder, 88, 60"x 18"x 24"

1-Hesser volumetric powder carton filler. 2-Standard-Knapp case gluera 1-Hercules drum mixer



Over (50) Bird & Sharples decanters

CENTRIFUES
Sharples P-5400D-Canter, 316SS, Carbide tiles, late (2)
Sharples P-3400 D-canter, 316SS, tiles (2)
Sharples P-5000 D-canter, 316SS

Sharples P-660 D-canter, 31699, back drive Bird 12" x 30", 316SS, Decanter, 20 HP Bird 18" x 28", 316SS, Decanter (3) Bird 18" x 42" Decanter, steel, 10/30 Bird 24" x 38" Decanter, 304SS, contour 10 Bird 24" x 38" Decanter, 316SS, contour (3) Bird 24" x 60" Decanter, steel Bird 24" x 86" Decanter, SS, 125 HP

Bird 24"x 98" decanter, 30488, carbide t UNUSED (3) Bird 32" x 50" Decanter, Monel, contour (2) Bird 32" x 50" Decanter, 304SS, contour DeLaval NX214-31B Decanter, 304SS, 20 HP (2)

DeLavel N.214-318 Decanter, 3048S, 20 PP (2)
Sharples AS26V "Super," SS (5)
Sharples AS26V "Super," SS
DeLaval BRPX-213-30, 3169S separator/decludgers (3)
Westfalls SAMN15037, Decludger/Separator, 3169S
Westfalls SAMN15037, Decludger/Separator, 3169S
Westfalls SAM14-35-076 3-way separator, 3169S
Krupp 10" pusher, 3165S, 16 HP
Baker-Perkins 19" pusher, 3049S, 40 HP
Sharples 48" T-1600 auto-basket, 100 HP
Talburst 48" Sharples at Talburst 19" Sharples 19" Sh Tolhuret 48" Satchmaster, rubber lined, 30 HP Sharples 48" Tornado-Matic, 88, 25 HP Delaval 48" Mark 111, 316SS hyd. CENTRIFUGE PARTS... Sharples, Bird, DeLaval, etc.

EVAPORATORS

2.4 sq. ft. Rodney-Hunt SS, 3 HP
21 sq. ft. Rodney-Hunt Turbafilm #4, SS
87 sq. ft. Rodney-Hunt, 304 SS, Turbafilm
100 sq. ft. Plaudier, 316L SS, wiped film
600 sq. ft. Goslin-Birmingham dbl. effect, SS
654 sq. ft. Buflovak dbl. effect, SS 1415 eq. ft. Yulcan, 31688 1688 eq. ft. Roger dbl. effect, SS Swenson 316SS continuous crystalilizer, 9" x 14"

Tanks & Vessels

30,000 gal., 30488, 14' x 24', colia, 200 HP agit. (4) 30,000 gal. ateal propane tanks, horiz. 260 pel (6) 20,000 gal., 30488, 12' x 24' (2) 17,000 gal., 30488, 11' x 24' (3) 17,000 gal., 316LSS, 14'x 13', Agit. (5) 10,600 gal., 316LSS, 12'x 14', Agit. (5) 10,600 gal., 316LSS, 16' x 16', agit. 8,000 gal., 3048S, 10'6" x 16', agit. 8,000 gal., 3048S, 10'6" x 12' 5,000 gal., 3048S, 9'x9', 25 HP agit. 3,500 gal., 3048S, 7'x 10', agit.

Mixers, blenders

3.5 cu. ft. Henschel #FM15D, 17/20 KW 11.5 cu. ft. Henschel #115JSS, 92/46 HP

11.5 cu. ft. Henschel #115JSS, 92/46 HP
13.7 cu. ft. Lodige #W600/K1200, mix/cool comb.
16 cu. ft. Strong-Scott 30459 ribbon blender (3)
20 cu. ft. P-K twin shell SS
35 cu. ft. Day Neuta, #MBX350, SS
60 cu. ft. Day Neuta, #MBX350, SS
60 cu. ft. Day Neuta, #MBX350, 10 HP
70 cu. ft. Day Neuta, #MB700, 10 HP
75 cu. ft. Day Neuta, \$S, jktd.
75 cu. ft. Day Neuta, \$S, jktd.
76 cu. ft. Day Neuta, SS, jktd.
110 cu. ft. J.H. Day, dbl. ribbon, 316SS
120 cu. ft. Cleveland ribbon blender, (6)
144 cu. ft. 304S3 dbl. ribbon blender, 30 HP
169 cu. ft. Yeung, ribbon, 8S
316 cu. ft. Sprout-Waldron ribbon blender, SS, jktd.



(6) Nooter 4'x 14' 316 SS rot. vac. dryers, 1982, NEW

NEW & UNUSED PROCESS EQUIP., 1982. IN ORIGINAL PACKING ... SOUTH CAROLINA, CALLI Phone (609) 267-1600

heat sealed closer, etc.

#V800 floor mounted modular chlorinator COLUMN, 46" dia. x 15'9", 30488 wash columns, designed for agitation (2) CYCLONE, DuCon Model 700/175 30498 high

FEEDERS, Acrison gravimetric weigh feeders, Model 403-15,000-3,000-BDF-4, 304 S8 Size "R" metering, auger and disc. cylinder, etc., etc... all SS contacts

FURNACE, C-E Air Co. "Cor-Pak" thermo oxydizers, direct gas fired 8'x2" W x 7'9" H x

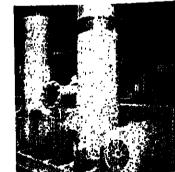
19'10" w/483 sq. ft. dust collector (2) MXERS, Webb, 59" W x 15'L twin shaft paddle

mixers or pug mills, 304SS contacts, (2) letize, shrink wrap, etc. automated system.

PULVERIZERS, Mikro #4TH pulverizers, 125 HP drive, (15) PULVERIZERS, Mikro #4MP pulverizers, 125H

drive (5)

PUMPS. Able #H18-57-45 triplex pump, ⁵⁰ GPM @ 1500 psi, 50 HP PUMPS, Peabody #14DOH-2 cooling tower pumps, 2000 GPM at 140' head, 100 HP



PNEUMATIC TRANSFER **BLOWER PACKAGES**

transfer...150, 100, 50, 40, 25, 20, 10,5 HP sizes...ALL NEW!

BLENDERS & MIXERS

DRYERS

kiler Conical vac. dryer G/L 72 cu. (1. complete s

-D &W Rotery vec. dryer, 316 SS, 2'x 7'.
-Genes SS 1 cu. It. dble. cone vec. dryer
-Petterson-Kelly 3 cu.lt. twin shell vec dryer
-Steller was shell drawn 48 0 cc. 42.2'.

-Pieuder 2.6 cu.ft. G/L dbl. cone vac. dryer -Standard Hersey 4"x30" Rotary dryer SS -Bowen Spray Dryers 7"/" & 5" SS -Accomatic fuld bed S.S. dryer Model 100ST 20 -Patterson-Keiley 5 cu.ft. SS Conicel Vac Dryer -Stokes 5"x30" Rotary Vac Dryer, Jktd, SS -Banco dbl. cone vac dryer 10 cu. it. SS -Patterson Keiley Twin Shell vac. dryer 75 cu. it.

FILTERS

GRINDERS & MILLS

-Eimco 4x12 Belt Filter -Sparkler Filter Mdl # 18-D-4 SS jkt./ 33012/ SS 8-6 -J.S. Autojet liller SS 50 sq. ft.

-0.3, Autoes inter press -ferel 12" SS litter press -ferel 12" SS litter press -ferel 12" SS litter SS 1.2" wide x 17' long -Sperry 42" Ptypro Filter Press 48 Chambers -Shriver 36"ALP 316-SS, 41,48 Chambers (2)

Patterson steel jktd ball mill (5) Ross 3-roll mill 4½ x 10" Premier Colloid mill Mdl. KSIF 40HP 316SS -Fitzmil Mdl. No. D-6/DSAO/12 30HP SS

Simpson Mueller 6"x5" size 2 VD mixer 20 HP

Sweep Separator /48"/30"/24"/18" SS

.Evirez SS Rotary filters 6 x 6

Stokes vec shelf dryers 48.9 sq.ft. (7)

Plaudier 2.6 cu.ft. G/L dbl. cone vac. drye

ISLENDER'S & WIAEI'S

150 gal. Sigma Blade Mixer, CS, jktd.

48adco 5 gal. SS [kid. vac. mixer 5 HP

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48adco 5 gal. SS Sigma Blade jktd. vac. mixer

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48adc Baker Perkins 150 gal. C/S jktd vac. Nusho CENTRIFUGES Bird Centriluge CS 40" x 60" Solid Bowl w/drive Brit Continge CS 10" x 28" Contour Bowl (UNUSEO)
-Bird 38" x 50" 347 SS Contour Bowl
-Shaples 12" SS Lab Model/Brighton Lab
-Shaples P-5000 decanter SS 100 HP

BALERS, Dispozapak #D600 balers, (2) BAG PACKER, Howe-Richardson #G-8-17 semi-automatic bagging system SS contacts,

BINS, 304L SS contacts, 1300 cu. ft./9720 gal 11'6" x 11'6" x 18" high, steel reinforced (2) CENTRIFUGE, Bird 24" x 96", 304SS, Model 15 solid bowl continuous, 10 deg. contour bowl, Tungsten carbide tiles on conveyor, 160 HP, 2900 RPM bowl speed (3)

CHLORINATION SYSTEM, Wallace & Tiernan efficiency cyclones, size 210, Type VM (8)

DRYERS, Nooter 4' x 14' rotary vac. dryer, 316L SS shell and jacket, incoloy ribbon agit.
ASME 100 psi/FV int. & jacket. 100 HP packaged Reliance drive with freq. converter.

contacts, Model BDF-4 volumetric feeder.

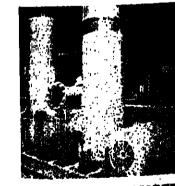
MIXER, Air mix blender system, Koppers-Sprout Waldron #36-50, 500 cu. ft., 30488, 6' x

PACKAGING SYSTEM, design to fill bags, pal-

PULVERIZERS, Mikro #18CB, 71/2 HP, with air-

lock & 30489 disc. chute

SHRINK WRAPPERS, CTX Prod. #PSBV4X46 shrink wraps with oven



(30) Roots "Whispair" positive blowers

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-Alpine Selva Model # A-32-100 LS
-Jettrey Fluid Bed Dryer
-300 gal. SS Disporsion Tenk (50)
-800 gal. 316 SS Roactor 42/PSI
-Fitzpatrick Fluid Bed Dryer SS Model # 75 Lab Reltz disintegator SS 5 H.P. 865 R.P.M. -Autoclave 200 gal. SS 115/350

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-SS Kettles 400, 300, 200, 150 (25)
-Baker Parkins 100 gal. CS jktd. Sigma Blade Mixer
-500 gal. SS jktd. agit. reactor low pressure (2)
-Artisan 1 sq. ft wiped film SS complete system

Lightnin mixers 1/2 HP w/shafts & props (20) NEW Ross 15 gel. SS jktd. mixtruder 7½ HP Mdi. AMK 15 Micro Atomizer S8 5HP XP Mdi. #5MA RIBBON BLENDER

-Abbe 40 cu. ft. SS cled nbbon blender -Strong-Scott 200 cu. lt. CS ribbon blender -J.H. Day 40 cu.ft. Ribbon Blender, 3/S (3) PRESSURE LEAF FILTERS
-750 sq. ii. U.S. Autojet, Mdl #750, 316 SS
-Pronto Filter SS 30" Die, 450 psl

-Pronto Filter SS 30" Dia, 450 psi Industrial Filter 100 ag.lt. Type 122 ID 31 Model OMD Enzinger leaf titler SS 360 sq.ft. PEACTORS -4000 gal,318 SS reactor wipips coll. (4) -Pilaudor 2000 gal, jktd reactor 150 psi/75 psi -Norwalk 3000 a 750 gal, SS reactor dimple jktd FV/50 -2500 gal, SS reactor 90/50 gal Norwalk 3000 & 750 gat. 25 reactor unique into 1 4755-2500 gat. SS reactor 90/50 psi Pfaudier 200 gat. SS reactor Pfaudier 9200 gat G/L Reactor 90/90 psi Unused Downington 1500 gat. Monat Clad reactor 55/70 psi Glascote 3000 gat G/L Reactor, 90/100 psi -13,500 gat. 304 Etc Dim., Jktd, Reactor, 30/100 psi Pfaudier 500 gat. G/L jktd. vac. reactor

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IDER-1.3 cu. ft. Abbe, S.S. with Jkt. IDER-11 cu. ft. Littleford Model M-5-G, S.S. ER-200 cu. ft. Patterson-Kolley Twin Shell, C/S IFUGE-46"x30" Wostern States, Perf, S.8316 ENTRIFUCE - AS-16NF Shamles, 3HP, 15,000 APM MILLER-150 ton Carner, 1906D7-5-3 Harmetic OMPRESSOR-400 CFM & 100 PSI Fuller C-80 80H, 100HP OMPRESSOR-800 CFM @ 125 PSI Clark ICA-6, 150HP ONDENSOR-155 sq. (t. Karthate, 75/75 PSI ONDENSOR-155 sq. (t. Karthate, 75/75 PSI IDENSOR-278 sq. (1, 304 S.S. 175/175 PS I UNUSED (2) IDENSOR-388 sq. (1, 304 S.S. 150/150 PS I UNUSED (4) IDENSOR-1636 sq. (1, 316 S.S. 150/150 PS I (3) RYER-5 cu. ft. Patterson-Kelley Conical S.S. ILTER-5'6"x8' Bird-Young 304ELC, Rot Vac ILTER-7"-30" Shriver & Sperry units ETTLE-50 gal, Mueller S.S. with Double Motion Agit.

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Filzmill, 316 9/8, No. DKAS012, 20 HP.
Holo-Filte Screw Dryer, 16" Dia. x 20" L., C/B, Jkt. trough.
Chromalox 20 KW Hot Oil Unit.
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(2) Letsch S/S sentiary ribbon blenders, 12,25 Cu. Ft., 2 HP;
(3) H. Oay "Nauth" Blender, 21; Gu. Ft. 316 S/S, MaX.
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GATT Talks 'Most Ambitious,' **Yeutter Says**

New global negotiations to reduce trade barriers and open world markets will be "the most ambitious trade negotiations" in history, says US Trade Representative Clayton Yeutter.

"We have a window of opportunity to achieve things in the next five years that have been impossible to achieve in the last 25 years," he told a House trade subcommittee where he reported on the recently successful efforts by world trade ministers to launch a new round of trade talks.

Mr. Yeutter said preparation for the "Uruguay round," named for the site of the just completed ministerial meeting in Punta del Este, Uruguay, will begin in Geneva by the end of next month.

The US, plagued by a record trade deficit, managed at the meeting to place several objectives on the upcoming agenda including two high on the chemical industry's priority list: improving market access for foreign in vestments; and increasing protections for in-tellectual property rights such as trademarks and patents.

"The negotiations will be tough," said Mr. Yeufter, "but we are optimatic that these negotiations will produce multilateral agreement on new rules and disciplines that will open significant new opportunities for American exporters and strengthen the global trading system so that all can compete on



MARKETPLACE CHEMICAL PROFILE

partly allayed by a major study which recently asserted that formaldehyde workers show no greater tendency to get cancer than other workers.

Merchant marketers have lost at least 1c. per pound in value over the last year due to lower methanol prices. The amount of formaldehyde compounds used in end products such as particle board are being reduced with technological improvements. This will slow formaldehyde growth in its major end use, urea formaldehyde resins. Overcapacity is a problem in some regions and average operating rates are in the low 70's percent range.

Formaldehyde demand is expected to grow slightly faster than GNP through the decade. Urea Formaldehyde resins, despite the strong housing industry, will be stagnant through 1990. Government agencies continue to investigate the safety of formaldehyde in the workplace and in end products. It is not clear what the final outcome of these investigations will be.

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Bird 36"x 72" horiz, Solid Bowl Steel
KRAUSE-MAFEI 18.5" pusher 8/S (rebuilt)
SHARPLES T-1600 48"x30" Auto S/S (2)
SHARPLES AS-16, 16V SS Clarifler (Rbt.)

370 cu. ft. S/S Conical Vac. Dryers.
Spray Dryer, Bowen 30" lsb, Niro 48" utility S/S
Bowen 4'6" # 2 Tower Spray Dryer S/S gas
Abbs 5 cu. ft. S/S dbl. cone w/drive

P/K 10, cu.ft. Tw. Sh. X/S W/L.S. Bar B/P 5 gal. Stt. Dbt. Arm kt. 3 H.P. 100 gal. J.H. Day Pony Mixer steel w/can. J.H. Day 35 cu. 11. Stf. Nauta 3 H.P. B/P 50 gal. Stf. D/ARM Mixer Jkt.W/Drive (2) Vrieco 100 cu. ft. S/S Nauta Mixers

2000 Gal. Plaudier G/L Reactor 15 HP agit & Baille SHARPLES Mark 3 14' S/S perf. Autobasket-Sharples P-3400 SS hortz. Solid bowl M.G. Homog. 200-M6, 8000 PSI Simpson 3FS/S Jkt. Mix Muller S/S TANKS 6000, 12000, 16000, 29,000 gel. Fitz, D-6 Mill Jkt. Chamber, 7 HP 300 G lkt. 88 Groen kettle 300 G jkl. 88 Groen kettle (2) 12,000 Gal. FRP Yerl. TANKS Miro-Pulv. 1 SH S/S 5HP W/Screw teed:

100 gal. DeDiatrich G/L reactor, 30/76 pai mech.

SS Ht. Exch.; 246,200, 125, 56, sq. ft.

10 gal. B-P Dispersion jktd., vac., 20 HP 7 gal. B-P Dispersion jktd., ram, 25 HP

21/2 gal. Day SS Sigma jktd., vac., 10 HP

D, 1200 D, 800 D, 300 D, (5)

SS Twin Shell 40, 30, 20, 3 cu. 1

seal, 2HP New 1979

Machinery

Sparry 36x36 poly press 75 chambers 35,50,150,300 sq.ft. Press Leaf 9/S & STL

12", 18", 24", 42", P/F Pressea C.i. poly or 9/8 Nlagara 342 Sq.Ft. Filter SS hor. tank 4'x20' Straight Line Filter SS 7.5HP w/access.

FILTERS FEINC 2x3, 5x7, S/S Rot. Vac. String SPARKLER 450 sq.ft. S/S Horiz, tank sani,

WE HAVE MANY MORE ITEMS - LET US KNOW WHAT YOU NEED

NEW ACQUISITIONS

703 gal. Readco įktd. Sigma mixer, 400 HP 2 cu. ft. PK SS Twin Shell w/bar 23 cu. ft. SS Day double ribbon, 71/2 HP 18"x28" 316 SS Bird Solid Bowl Centrif. 3TH Mikro Pulverizer 30 HP STS-100 Aeromatic SS Fluid Bed Dryer

300 gal. Plaudier G/L 25/90 pai, 3TW Unused 70 cu. ft. Titanium dbie cone vac Dryer

REACTORS 2000, 1000, 750, 300 gal. G/L, mech. seals

(/)
3000 gal. 316 SS 100/150 psi varl. agit.
3000 gal,304 SS, 25/125 psl, ½pipe coll
jktd., agit New 1974
2000 gal. 316 SS, 75/180 psi, agit.
1000 gal, 316 SS, 30 & FV/150 psi, agit.
500 gal., 316 SS, 75 & FV/70 psi, agit
24 more in stock from 10 to 300 gais., 304
& 316 SS. Cali Now.

& 316 SS. Call Now. **SS BLENDERS** 69 cu. ft. SS Patt. cone, w/liquid bar libbon/Paddle: 650, 200, 120, 70, 40, 23 cu.

ft. (26) Conical: 320, 200, 150, 130, 100, 75, 69, 40, 30, 20, 10, 5, 2 cu. ft. (18) Twin Shell: 200, 100, 75, 40, 30, 20, 3 ou. ft. some with Intensifiers (12)

MIXERS Double Arm: 1000, 500, 300, 200, 150, 10, 7, 21/2 gal. Sigma, jktd. Pony: 125, 75, 100, 80, 60, 50 gal. (12) Planetary: 100, 65, gal. vacuum Dispersere: 75, 50, 40, 25, 20 15 HP (8)

lord: FKM 2000D, FKM 600D, FKM 300 D, FKM 130D, jktd. & choppers (4) MISCELLANEOUS Vac. Pumpa: NASH: CL 2003, CL 1003, AT 2004, L5, MD 674 KINNEY: KDH 150, KD 30, KS 27, Stokes: 212 H 10.

FILTERS 42" Shriver poly, 50 ch., 4 eye 48" poly chambers, 11/2" cake, 4 eye (150) SS filter presses: 18",16",13",12"(7) Sparklera: 3359, 18D10,8-6

CENTRIFUGES

48"x30", 40"x24", 316 SS auto-batch 40", 30", 26", basket, 5S & R/L avail. P5000, P3400, P3000, P2000, Sharplet 40"x60", 24"x60", 18"x28", 6" Bird DeLaval: NX 207, BRPX 207 Westphalla: SAMN 5036, SA 1435-076 HS36, HS24, S8, 316 SS B-P "Ter Meer"

MILLS/PULVERIZERS Chilsonators: all SS, 4LX10D, 7LX 10D, 6LX16D

Fitzmilis: F20, F8, D8 (8) Mikro: 4TH, 3TH, 2DH, 2SCB, 1SH, 8MA 3-Roll Mills: 16"x40" to 4"x8" (9) Ball & Pebble: 8'x12' to 2'x2' (12) Colloid: 50, 25, 15, 10, 5, 1HP Raymond: 5057, 5047, 4237, 3036

DRYERS/EVAPORATORS Wiped film: 173, 87, 25, 21,6, 12 sq. ft. Beit Flekers: 48"x45', 20"x20"

Con. Vac.: 500, 100, 50, 40, 10, 2.5 c.f. Rotary Vac.: 130, 40, 20, 10 cu. ft. S.S. Fluid Bed: 100 kg, 60 kg, 30 kg, S.S. Double Drum: 12"x18", 6"x8", 9.9. Tablet Pressea: STOKES, MANESTY, Rotary: 8'x70' to 2'x14' (12)

George Equipment & Machinery Co. 135 Manchester Place, Newark, N.J. 07104 Tel. (201) 481-0900 Telex No. 138944

COATINGS & PLASTICS

Continued from Page 31

pounced any increases to date, but prices have been soft for some time; this increase in naw material costs will further damage prof-

PLASTICS MATERIALS

POLYESTER RESINS - The Chemicals Division of USX Corporation will be following Reichhold Chemicals Inc.'s move to increase list and selling prices for its unsaturated polyester resin lines, effective October 1, a company spokesman announced last week. Prices for commodity grades will be increased by 2c. per pound.

selling prices 2c. per pound. Selling prices for pipe grade will now be 30c. per pound, those for general purpose grade, 31c. per pound Remaining producers have not yet comand those for specialty grades 32c, per pound. mitted themselves to any price change; Re-

SPECIALS

Hull 48 & 180, Sq. Ft. Lyophilitors Stuppering Hull 550 Sq. Ft. SS vac. Sholl Dryors Westfalls contribuges SAMN 15007 & SAMH 15037 Westfalls contribuges SAMN 15007 & SAMH 15037 Chempace 18,000 gat. SS formenter agit. 120 HP BP 100 gat. 18 VIIM Stigma Mixor 301 HP Ockes SS mixer 8MB 3 vari. Sargent SS spron dryer 4"220" Raymond 3036 Histor mills (2). Schort SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers, plate shifters, hydrorus SF 18 VIIM 150 SS 48 Chambers.

125 HPXP unused FB 70"x96" 4-roll L. catender FB 2 roll mill 60" & 84" Barbury ruizers # 3 A. 3 D. & #11 D APV Parallow pasteurizer type HX New England-unscramblers-NEH 120 & 200

MIXERS Ribbon Blenders 89, jkt., 30 & 200 cu. ft.
Ribbon Blenders 1½, 5, 17.5, 60 & 215 cu. ft.
Atlentic Research cone miser #8 CV
09y Nauta Mix 980 jt., 40&5 HPP
Day SS Nauta Mixers 52, 71, 8, 700 cu. ft.
P.K Conical Blenders 5, 15, 20, 80 cu. ft.
Day Pony Mixers 85 50, 80, 125, 175 gal.
Simpson Mullers 98 24", #1F UNUSED & #2
ERResburg crisers #1 30, 98 110

BAKER PERKINS JKT. MIXERS

CABLE: REQUESTS NY

750 gal. Sigma Bottom 400 HP 100 gal. Dispersion 15 JEM 2, chrome pinto 50 HI) 100 gal. Sigma DNM bottom 20 HP (3) 100 gal. Sigma JNM Tilt 20 HP 50 gal. Dispersion Misor-Extrudor 100 HP 15 gal. Sigma Tilt 15 HP 5 gal. Sigma AMK SS Mixer-Extrudor 6 gal. Sigma Olspersion & Duptox SS (3) 15 gal. Sigma V; HP vari

GREAT BUYS FROM LOCATION 185 Ribbon Blenders 215, cu. ft., 54"x12"
ME full jacket 30 to 75 pal
str approx. 8" Dies, Ribbons 3"wa \\
str Reducer & Chain drive, 40 FHP motor
As above but 120 cu. ft., 44"x 10', 20 HP
ts above but 50 cu. ft., 28"x99", 10 HP

ichhold and USX are the two largest domestic

values and customer pressure for

passthroughs, despite the fact that many raw

material precursors are not crude-based.

The increases will be needed, producers say,

to enable them to absorb higher styrene

monomer, glycol, and phthallic anhydride

POLYVINYL CHLORIDE RESINS -

Vista Chemicals Inc. has elected to reestab-

lish June price schedules for its polyvinyl

chloride products, company spokesmen re-

major domestic producers of PVC to hike

This follows moves by almost all other

ported last week.

producers of unsaturated polyester.

REACTORS-TANKS

2,000 gal. SS reactors 150 psi. [kt. agit. (2) 1,000 gal. SS reactors 150 psi. [kt., sgit. (2) Pfaydler 100 & 500 gal GJ, reactors 2,150 gal. 5.3. 100 psi 6'x8' (4) Abbe SS 2 cu. ft. conical vsc. dryer

EVAP.-DRY CENTRIFUGE

Bird 38":50" Hasteloy C centrifuge
Blaw Knox 1500 & 150 sq.ft. SS Evaporators
LUWA Thin Film 200, 173, 120 & 20 sq.ft.
VAC, own 42" dta. x 60"L, 30 KW
STOKES Freeze Dryers 24 & 300 sq.ft.
BIRD 24":38" S.S. Cont. Cont.
Bowen 10":30" & 20":80" SS spray dryer
Holoffice SS dryer-Chillor Model D 1612-6
2,500 gel. rusctor 316 SS, 75 psi + Vec /150 psi jkt.

GENERAL

Rolls Prehroaker 300 HP SCR Drive IR compressor 1000 cfm, 100 psi 200 HP Reymond 12" screen mill 5HP ROT-VAC Filter 10" 18", 8" 8", 4" 8", 8" 3" YORK Turboninstor 7000 Ton Refrig STOKES Model 640, 294, T. 4 T Presses Caulin SS Homogonizers MC 18, MF 18 + MC 45 300 HP DC-SCR Drive 0-120 RPM equipment equities corporation

866 UNITED NATIONS PLAZAM NEW (YOEK, N.Y., 10017/12) 688-8800

Prices and margins had eroded considerably this year, in response to falling crude ADVERTISERS' INDEX

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CLARK COMPRESSORS

RECIPROCATING (MOTOR DRIVEN)

CBA-4, 3000 hp Drivers (3 Available) CRA-2, 900 hp Drivers (2 Available) RA-1, 350 hp Drivers (2 Available) CMA-4, 400 hp Drivers (1 Available)

CYLINDERS

*Six 101/4 x 17, Lined from 121/4 cast steel, 2000 PSI Three 71/8 x 17, forged steel Three 5% x 17, forged steel Two 18 x 14 Two 29 x 14 Four 101/2 x 8

CENTRIFUGALS

3M5/2M7, 2500 hp Driver 2M-10, 4000 hp Driver

*ATTENTION HBA FANS

Our Inventory includes many other cylinders compatible with these frames, other frames compatible with these cylinders, and other drivers for Reciprocating and Centrifugals. Call Jack Burch.



LOUISIANA CHEMICAL **EQUIPMENT COMPANY**

P.O. Box 1490 Laporte, Texas 77571 (713) 471-4900 TLX 77-5653

NEW ARRIVALS 12"x30" BIRD Centrifuge, 316 Stainless with 20 HP motor.

(Ref #23692). 18"x28" BIRD Centrifuge, 316 Stainless 10 deg Bowl, 80:1, with 15 HP motor. (Ref #23693).

24"x38" BIRD Centrifuge, 316 Stainless 15/3 deg Bowl, 40:1, with 40 HP motor. (Ref #23694).

500 HP CLEAVER BROOKS BOILER, gas-fired, 17,250 PPH, 150 PSI, New 1971. (Ref #23695).

UNUSED 500 HP:CLEAVER BROOKS BOILER, gas-fired, Series 700, 17,250 PPH, New 1975. (Ref #23696)

ALSO AVAILABLE

HEIL Rotary Dryer, Model 105-32, 3-pass, 10'6" Dia X 32' with 100 HP HEIL BLOWER ASSEMBLY. (Ref #20104).

(4) BELIOTT DEWATERING PRESSES, Model 2919 36" X 56", 304 Stainless, driven by 10 HP motors. (Ref #20106A & #20106B).

EQUIPMENT INVENTORY SYSTEM

We couldn't find the computer inventory system we needed so we developed it ourselves. Now we're making it available to the industry. It's an equipment inventory system with a unique query capabillity that allows you to find a specific item by size or functionality. It runs on an IBM/PC and just like the PC it's within everyone's

Call Jim Balkum, Computer Division (713) 471-4900 price range.

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

MICAL PROFILE

ORMALDEHYDE SEPTEMBER 29, 1986

SUPPLY	CAPACITY*
PRODUCER Borden (11 sites)	1.760
Borden (11 sites)	320
D hr (4 2)(62) * * * * * * * * * * * * * * * * * * *	2,000
Celanese (3 Sites)	
Chembond (3 siles)	90
D.B. Western (2 sites)	7,3/4
Du Pont (5 sites)	200
GAF (2 5)(98)	557,7
Georgia-Pacific (o sites)	7/4
Hercules	135
IMC	610
Monsanto (3 sites)	
Perkins industries	300
Perkins industries	114
Rogue Valley Polymers	g Eû
-	

*Millions of pounds annually on a 37 percent basis. Borden added 200 million pound of capacity to its 250-million-pound-per-year Gelsmar, Le. unit in February. BTL Specialty resins, owned by Bakelite Thermosets Ltd., Canada, acquired 283 million pounds of capacity from Reichhold Chemicals inc. at 4 locations in June. Of the newly acquired units, BTL shut the 73 million pound plant at Tuscalcosa, Ala. In June and plans to Idle the 50 million pound unit in Kansas City, Kan. early next year. Reichhold shut a 32 million pound per year unit in Tacoma, Wash. in 1985. Nuodex shut its 130 million pound per year plant at Ford, N.J. in February, 1985. Rogue Valley Polymers purchased its White City, Oregon plant from Reichhold in 1985. Wright Chemical added 34 million pounds of annual capacity to its Wilmington, N.C. plant this September. D.B. Western started a new 40-million-pound-per-year plant in Virginia, Mont. In January. Its other 40-million-pound unit in Las Vegas, New Mexico is three year old. Profile last published 9/26/83, this revision, 9/29/86.

1985: 5.8 billion pounds; 1986: 6 billion pounds; 1990: 6.63 billion pounds.

Historical (1960-1985): 4 percent per year; future: 2.5 percent per year

Historical (1952-1983): High, 9.05c. per pound, 37 percent basis, uninhibited, tanks, divd.; low 3c. per pound, same basis Current: 6 cents per pound, same basis.

We cize try. I Dep 791-Your pigm cals. Pyra Wast

du Pc Store equipi veyor Hicks dersoi 938-6i

Urea formaldehyde resins, 27 percent; phenolic resins, 21 percent; acetylenic chemicals, 11 percent; polyacetal resins, 8 percent; pentaerythritol, 7 percent; hexamine, 5.5 percent; urea-formaldehyde concentrates, 5.5 percent; melamine resins, 3.8 percent; MDI, 4.7 percent, miscellaneous, 5 percent.

A strong housing industry is bolstering demand for major end use markets; urea-formaldehyde resins, phenolic resins and pentaerythritol. Sharply lower methanol prices this year have reduced production costs for this largely captive chemical. Concern about formaldehyde toxicity to chemical workers has been

Rohm & Haas' Dicofol Ordered Back by EPA

Environmental Protection Agency last week ordered an immediate halt to the distribution and sale of dicofol pesticide active ingredients manufactured by Rohm and Haas Company since June 29

The agency also cancelled product registrations that contain dicofol as an active ingredient and asked the company to recall all cancelled stocks.

EPA says Rohm and Haas provided data demonstrating that it failed to meet the reduction levels of DDT and related contaminants in dicofol which the agency required. The reduction was ordered earlier this year to protect the environment from high levels

of DDT contamination. A Rohm and Haas spokesman says the company intends to comply with the provisions of the order and has already begun the notification process to recall materials produced after June 29.

PRODUCTION PROCESS

"We feel we can modify our production process in a month or so, adding a post-production process that will bring us within the newly defined 2.5 percent limit (of DDT con-

Dicofol is used to control various species of mites, primarily on cotton and citrus.

Last May, EPA issued a regulation requiring a two-stage reduction of DDTr in all dicofol products manufactured after June 29, 1986. DDTr includes DDT, DDD, DDE, tetrachloro-DDT and other DDT related com-

After June 29, all dicofol products were to contain less than 2.5 percent of DDTr contaminants in the technical-grade compounds After December 31, 1988, all technical-grade products must contain less than 0.1 percent

EPA says the data submitted by Rohm and Haas to support the continued registration of products show DDTr contamination two to three times greater than the maximum permissible level.

The Rohm and Haas spokesman says the company does not agree with EPA's interpretation of the data, but has no plans to contest the agency's action. He also says Rohm and Haas will make the necessary engineering and processing modifications to meet the less than 0.1 percent DDTr standard when it takes effect in 1988.

DDT, once a widely used insecticide, was banned in 1972 by EPA after it was shown to cause severe reductions in the reproductive success of various fish and birds. DDTr, unwanted contaminants in the manufacturing of dicofol, may cause thin eggshells and other adverse reproductive effects in birds.

environment and build up in the food chain. Therefore, birds-of-prey, like the peregrine ida, Texas and California.

The cancellation action applies not only to all dicofol products formulated by Rohmand Hoas since June 29 but also to those products formulated by other registrants who obtained their dicolol active ingredients from Rohm and Haas. These dicolol registrations account for a significant percent of the 2163 million pounds used in the US each year.

Not immediately affected by the actions are the dicofol active ingredient products manufactured by Makhteshim-Agan (America) Inc. of New York, the only other manufacturer of dicofol active ingredients.

However, EPA has determined that the product chemistry information submitted by Makhteshim-Agan may not be adequate and is requiring additional data within 30 days in order to assess whether their dicofol products meet the 2.5 percent DDTr upper limit.

There are approximately 84 registrants formulating products with dicofol active in gredients. About 55 percent of these failed to respond to the May reporting requirements. As a result, EPA also is now notifying these companies that their registrations are cancelled for failure to respond to agency requirements. Users having leftover dicold stocks may continue to use these stocks until they are depleted.

EPA conducted a special review of dlcofol, between March 1984 and May 1986. As part of its assessment, EPA consulted with the Department of Interior's U.S. Fish and Wildlife Service (FWS) concerning the effects of continued use of dicofol on endangered

FWS responded by saying that the peregrine falcon would be in jeopardy from the use of dicofol at current geographical-us patterns and rates. FWS further stated that n all parts of the United States, except California, jeopardy to the peregrine falconcoul he precluded by reducing the level of DDTra technical dicoful to 0.1 percent, consistes with the time frame set by EPA. A large portion of dicofol use is in California.

OES concluded that the situation in Callformia called for one of two alternative ac tions: banning immediately all sale and us of dicofol products containing levels of DDR greater than 0.1 percent; or requiring dicale registrants to fund a portion (\$325,000) of la privately-run program to aid the recovery he peregrin falcons in California.

The funds for the second alternative would be used to offset the negative effects of the use of dicofol and assure the continued recoery of the bird population during the period before all products containing more than 0.1 percent DDTr are prohibited in channels d

Dicofol has been registered since 1967. I oping fish eggs increases as DDT residues in fish increase. DDTr are long lasting in the opple open to the long lasting in the opple open to the long lasting in the long lasting in the opple open to the long lasting in the lon and "Mitigan." All current production is out side the US. Major useage is in Arizona, Flor-

JOBS & PEOPLE {{{ }}} JOBS & PEOPLE

Mar. 180

Fillem E. Fell, who has been appointed presi-lent of the Inorganic Chemicals Division of fannwait Corporation. He will be responsible for

d and a variety of chlorates and other chlo

nanager of market evaluation in Air Prod-

kts & Chemicals, Inc.'s technical diversifi-

ation department... JOSEPH S. NA-

FORSKI has been named general manager

featalytic studies at Catalytica Inc., Moun-

ain View, Calif... DOUGLAS C. TROST, JR.

as been appointed account supervisor for

ples of water-soluble polymers to the coat-

ngs and buildings industries in the inidwort

buan smrrn has joined International

echnology Corporation as senior vice-presi-

ent of remediation and construction...

OHN PERRY has been elected product

manager for Fike Corporation's tantalum

netalating group, coming from a similar po-

ition with Generals Metals Technologies...

10Y TAYLOR has been named corporate

r Hercules Incorporated.

roduction and sale of chlorine, hydrochloric

W.R. Grace Elects Agricultural V-P's

W.R. Grace & Co. has elected C. Dean McWilliams and Harry B. Risinger corporate vice-presidents. Both men are from the agricultural chemicals group, based in Memphis.

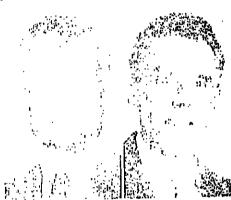
Mr. McWilliams joined Grace in 1964 as a salesman in the Nitrogen Products Division. In his tenure at W.R. Grace, he has been regional manager, vice-president of fertilizer marketing and executive vice-president of marketing with the agricultural group.

Mr. Risinger has held several managerial positions with the agricultural group, including manager of financial analysis.



director of planning and development at Rhone-Poulenc Inc., where he will be responsible for strategic planning and evaluating capital investment projects.

HAJA GAWRILOW has been appointed di-



rector of product development for SVO Enterprises in Columbus, Ohio... ANTHONY J. ESPOSITO has been elected vice-president of Recon Associates, Inc. He will continue his duties as general manager of Recon's headquarters in New York... ALVIN H. MAY has been named vice-president of the corporate sales division at Naico Chemical Company. JOSEPH M. PELLISH has been appointed



dent of Kalser Chemicals, the industrial and Chemical Corporation, Mr. Nelson will con tinue as a senior vice-president of the Kalser

Paul-based H.B. Fuller Company... GARY J. HEFFNER has joined Atlantic Industries, Inc.'s sales staff, serving accounts in Wisconsin, Michigan and Minnesota... CHARLES J. BENJAMIN has been named vice-president of sales of an expanded marketing and distributing department at Arco Chemical Com-

RICHARD S. GRANT has been elected president of Airco Distributor Gases, a new division of BOC Group, Inc... JOHN S. HEGE-DUS has joined Sterling Drug Inc. as vice-president of the corporate development department... DAVID E. JONES has been appointed vice-president the special products division of A.H. Robins Company.

A. BRUCE SHAPIRO has been named vicepresident of corporate planning at Enzo



at Arthur D. Little, Inc.

BUSINESS BRIEFS

mediate product sales representative in Ohlo, Michigan and Kentucky for BioGuard's chemical specialties division, Bio-Lab... RHONDA GERMANY has been appointed consultant to the Advanced Materials & Electronics Division of Chem Systems Inc... STEPHAN RUDOLPH has been elected manager of the product technology practice

Soltex Polymer Names

New Product Managers

Soltex Polymer Corporation has appointed

Joe Muzikowski business manager for "For-

tilene" polypropylene and Bill Mould product manager for "Solef" polyvinylidene fluoride.

Mr. Muzikowski was formerly director of

Soltex, a subsidiary of Solvay American

Company, is headquartered in Houston, Tex.

Solvay & Cie. SA, based in Belgium, is the

Biochem Inc... PETER L. PETRULO has

been appoined district sales supervisor of the

Adhesives Division at National Starch &

Chemical Corporation ... WILLIAM F.

LALOR has been elected president of Stuart

Pharmaceuticals, a division of ICI Americas

CURTIS PHILLIPS has been named inter-

marketing services. Mr. Mould comes from

the "Solef" sales division.

MEETINGS CALENDAR



THIS WEEK

EUROPEAN PETROCHEMICAL ASSOCIATION, British

OCTOBER

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS & COLORISTS, International conference and exposilion, Westin Peachtree Plaza Hotel, Atlanta, Ga., Oc-

MERICAN MICROCHEMICAL SOCIETY, SESTERS BIREtytical symposium, jointly with American Chemical Society and Society for Applied Spectroscopy, New York on Hotel, New York, October 20-24. AMERICAN OIL CHEMISTS SOCIETY, second world conference on detergents, Montreux, Switzerland, Octo-

ASSOCIATION OF THE NON-WOVEN FABRICS INDUS-TRY, eighth international conference and exposition Georgia World Congress Center, Atlanta, Ga., October 21-23.

CHEMICAL GROUP, NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT, Fall Conference,

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCI-ATION, seminar on serosol technology, Ramada Hotel O'Hare, Rosemont, Ill., October 27-29.

COMMERCIAL DEVELOPMENT ASSOCIATION, Impact of mergers and acquisitions on the future of technol-DRUG, CHEMICAL & ALLIED TRADES ASSOCIATION,

96th annual meeting, The Breakers, Palm Beach, Fla., COPEAN CHEMICAL MARKETING RESEARCH AS-ROCIATION, 1986 conference, "The Chemical Industry Faces its Future," Switel Eurotel, Antwerp, Bel-

n. October 13-15. EUROPEAN PETROCHEMICAL ASSOCIATION, distributton meeting, Hotel Loews, Monte Cerlo, Monaco, October 19-22.

FIRE RETARDANT CHEMICALS ASSOCIATION, Fall conference on proper processing and selection of flame retardants, Klawah Island, S.C., October 19-22. NATIONAL RENDERERS ASSOCIATION, 53rd annual yention, Ritz-Carlton Hotel, Naples, Fla., Octobe

SOCIETY OF CHEMICAL INDUSTRY, chemical industry SOCIETY OF THE PLASTICS INDUSTRY, plastics show and conterence - South, jointly with the Society of

SOCIETY OF THE PLASTICS INDUSTRY, polyurginane ber 15-17

NOVEMBER

MERICAN PETROLEUM INSTITUTE, annual meeting. CHEMICAL MARKETING RESEARCH ASSOCIATION,

business school, personal computers in the work-place, Scanticon Executive Conference Center, DRUG, CHEMICAL & ALLIED TRADES ASSOCIATION, Fall luncheon, Waldorf-Astoria Hotel, New York,

FERTILIZER ROUND TABLE, Sheraton Inner Harbor Hotel. Baitimore, Md., November 17-19. FRAGRANCE MATERIALS ASSOCIATION OF THE SEPT 29,1985

UNITEO STATES, 10th international congressed souther oils, fragrunces and flavors, Ome State Hotel, hendruarters hotel, Washington, D.C. New North Co. K-'86, 10th International trade fair for pleatics and the Dusseldorf, West Germany, November 6-13. Dusseldorf, Wast Garmany, November 6-13.

LATIN AMERICAN PETROCHEMICAL ASSOCIATION AND PROCHEMICAL ASSOCIATION AND

NATIONAL PAINT & COATINGS ASS

LATER ON

CHEM SHOW, 42nd exposition of the che Jacob K., Javits Convention Center, New York

CHEMICAL SPECIALTIES MANUFACTURER CHEMICAL SPECIALTIES MANUFACTURES ATION, 73rd annual meeting. Marfold's Habre Reson, Fort Laudorday, Fig. December 7.11.

NATIONAL ABSOCIATION OF CHEMICAL DISTRIBUTIONAL ABSOCIATION OF CHEMICAL DISTRIBUTIONAL ABSOCIATION OF CHEMICAL DISTRIBUTION TORS, 15th annual meeting, Ritz Cartor, tel, Naples, Fig., Decomber 2-8

IR PRODUCTS & Chemicals Inc. has introaced a new group of epoxy curing products or use in high-performance epoxy resin syslems. "Amicure" DBU tertiary amine and Amicure" SA series tertiary amine salt acemperatures and extended pot life at room

BUSINESS BRIEFS

HEMICAL LEAMAN TANK LINES has pened a new BulkModal" rall/truck trans-ler service facility in Houson, Tex. The facil-filty will ship the least transwill ship liquid and dry bulk commodities Junction with Burlington Northern railwrently transporting and transferring bulk lastics for Occidental Chemical Corpora-

C.P. HALL COMPANY has reintroduced "Plasthall" dibutyoxyethyl phthalate for celflexibility of cellulose-acetate-butyrate pharmaceuticals, photographic films and as

EASTMAN CHEMICAL PRODUCTS has introduced a new development product, 2phenylhydroquinone, for use as a chemical, pharmaceutical and polymer intermediate. No-charge samples are available for planned evaluation and technical response. The projected long-term guideline price for PHQ in quantities of approximately 200,000 pounds per year is expected to be between \$20 and \$22 per pound, with existing technology,

MARTIN MARIETTA MAGNESIA Specialties has appointed M.A.F. Magnesite BV as its sales representative for technical and agricultural magnesium oxide products marketed throughout Europe. The products are sold under the "MagChem" name for in-dustrial applications, "AniMag" for animal feeds and "FloMag" for fertilizer suspen-

sack, N.J., affiliate of Halocarbon Products Corporation, has developed a new 99.9 per-The material improves the processing and cent-pure trifluoroacetic acid that elimiformability characteristics of cellulose acetate film and sheet compounds, according to the company. The acid is used in the production of agricultural products, the production of agricultural products, the production of agricultural products. munications wire and cable compounds and ethylene vinyl acetate copolymers in New England and New York.

> VELSICOL CHEMICAL CORPORATION has moved its corporate offices from down town Chicago to suburban Rosemont, Ill. Velsicol manufactures and markets profes sional pest control products and specialty chemicals

September 29, 1986

CHEMICAL MARKETING REPORTER

full time Division maintain which off salary and applicants Holdening

epecial i fiquids, ru

CHEMICAL MARKETING REPORTER

^{temperature}, Air Products says.

hub center in Houston. The facility is



Air Products Names Baker Burmah Nemes Fry 5 Carbide Picks Romasy..... 4

Carbide to Expand Latex 4 Celanese Picks Kennedy...... 9 Commodities Evolving to Few 7 DES Lawsuit Seeks \$100 MM 7

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PP Expansion Completed 4 P&G Glycerine Doubles 7

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Stringfellow Case 4

Superfund Tax Established. 3

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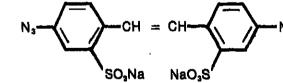




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ALIPHATIC ORGANICS	7,18	
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COATING MATERIALS	5,31	REPORTER's market index of
BRUGS	19	chemicals and related materials
FINE CHEMICALS	19	(100-1974 average), based on /
FLAVORING MATERIALS	28	97 key commercial chemicals,
HEAVY CHEMICALS	7,28	appears alongside with data for
QILS, PATS & WAXES		two weeks ago, last month and
PERFUME MATERIALS	26	last year.
PLASTIC MATERIALS	5,31	中。请你是是我们的人们都不是我

EMICAL MARKETING Sept. 26, 1986..... 152,04
DRTER's market index of Sept. 12, 1986..... 152.58 1974 average), based on Aug. 29, 1986 152.42 ey commercial chemicals, Sept. 27, 1985..... 152.46

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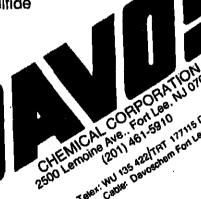
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- 1,2-Phenylene Phosphorochloridite
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- 2,4,6-Trichlorophenyl Hydrazine
- N,N'-Dicyclohexylcarbodiimide



CHEMICAL MARKETING CUES

GLYCERINE: P&G says it will nearly double production DOP: Producers say broad price increases have PHENOL: Manufacturers schedule two cent advance for October 12.2. PENICILLIN Mendos ha

- N,O-Bis-(Trimethylsilyl)Trifluoroacetamide
- 1,8-Diazabicyclo [5.4.0] Undecene-(7)

- Sodium Para Toluenesulfinate
- 3-Amino-4-Chlorobenzoic Acid
- Acetylene Dicarboxylic Acid
- Diphenyl Disulfide
- Pyruvic Acid
- Squaric Acid
- Piperidine